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ROYAL GARDENS
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FUNGI GUARANITICI

PUGILLUS I

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FUNGI GUARANITICI

AUCTORE

CAROLO SPEGAZZINI

(ITALO)

Pugillus I

Quum praeclarus peregrinator B. Balansa, jam diu Botanicae perquam benemeritus, benevole ac munifice mihi pulchram collectionem mycologicam Reipublicae Paraguayensis traderet, nunc eam publico jure facere ausus sum. Viro eximio quod ad me attinet gratias quam maximas ago, atque verbis mycologorum omnium de gaudio illi gratulor. Imperium guaraniticum aëre purissimo nec non natura opulentissima praeditum adhuc plane inexploratum, hodie tantum ab hominum ferarumque saevitia redemptum; Pax tandem dulcissima scientiis artibusque januas aperit, ac thesauros mirabiles studiosis laboriosisque offert; quantae divitiae ignotae scrutatori solerti conquistandae, parvulum hoc et imperfectum opellum omnes nonnihil docebit.

Ex Universitate Bonaërensi 1 Nov. 1883.

HYMENOMYCETEAE Fr.

AGARICINEAE FR.

1. AGARICUS *(Lepiota)* BONAERENSIS Speg. = Fung. Arg. pug. II, n. 1.
   Hab. In pratis vulgatissimus prope *Pirayú* et *Paraguarí*, autumnali tempore 1880-83 (sub num. 3412 et 3899).
   Obs. Stipes in speciminibus senescentibus saepius tortus, ceterum cum descriptione citata plane conveniunt; species *Ag.* (Lep.) *procero* Scop. satis affinis, et facile ejusdem varietas tantum!

2. AGARICUS *(Clitocybe)* BALANSAE Speg. (n. sp.)

Diag. Solitarius, inodorus; pileus carnoso-membranaceus (5-6 cent. diam.) applanato-subhemisphaericus, profundiuscule umbilicatus, glaber, subflaccidus, albus, centrum versus sordidus v. fuscescens, margine non v. vix subinvolutus, laevis, integer, leniter indulatus (in sicco!); lamellae albae v. vix pallescentes, subconfertae, latiusculae (2 mllm. lat.), membranaceae, acie integerrimae, polymacriae, antice attenuato-acutatae, postice adnatae brevissimeque decurrentes; stipes breviusculus, crassiusculus (2-3 cent. long. — 5-7 mllm. crass.), deorsum teres, fuscescens, sursum parce incrassatus et compressus, albus, laevis, glaber, carnosulo-fibrosus, latiuscule cavus, basi abruptiuscule ac modice noduloso-incrassatus. Sporae ellipticae, saepius inferne lateraliter acutatae (7-7,5 × 4-5), hyalinae.

Hab. Ad terram in sylvis prope *Guarapi,* Dec. 1881 (sub num. 3369).

Obs. Species habitu *Ag. catino Fr.* nec non *Ag. brumali* Fr. satis similis, stipite tamen crassiore atque cavo, lamellis fere denticulo tantum decurrentibus statim dignoscenda.

3. AGARICUS *(Clitocybe?)* CALYX Speg. (n. sp.)

Diag. Solitarius, inodorus; pileus tenuiter carnoso-membranaceus, rigidulus (in sicco), cyathoideo-infundibuliformis, majusculus (10 cent. diam.), sordide albescenti-pallidus v. fulvescens (in sicco), centro minute, laxe, adpresse ac saepe parum manifeste fuscescenti-squamulosus, ceterum glaber, margine erecto, acuto, tenuissimo, subconferte ac majuscule (sed saepe parum conspicue) striatus, acie irregulariter repandulo-crenato, crenaturis plus minusve breviter et dense lacero-fissis; lamellae polymacriae, membranaceo-rigidulae ac fulvo-fuscescentes (in sicco), latiusculae (3,5-4,5 mllm. lat.), acie integerrimae, utrinque attenuato-acutae, in stipite irregulariter decurrenti-productae, saepe subanastomosantes; stipes erectus, rectus v. vix incurvus, teres, longiusculus (4-5 cent. long. — 6-7 mllm. crass.), rigidule subsuberoso-carnosus (in sicco), extus sordide albescens, saepe squamulis plus minusve fuscescentibus ac conspicuis ornatus, deorsum irregulariter et subbreviter squarroso-hirsutus, basi abrupte modiceque nodoso-incrassatus adnatusque, intus farctus albus, centro stricte spongiosulus, carne suberoso-fragili, ac subfriabili. Sporae basidiaque non visa.

Hab. Ad truncos humifusos putrescentes in sylvis prope *Guarapí*, Maj. 1880 (sub num. 3371).

Obs. Species pulcherrima ob pileum rigidulum atque stipitem subsuberosulum (si etiam in vivo) a genere *Agarico* Fr. nonnihil desciscens; sporidiis autem non visis sectione ergo dubia!

4. AGARIGUS *(Collybia)*? AURANTIELLUS Speg. (n. sp.)

Diag. Coespitosus, rarius subsolitarius, inodorus; pileus convexo-applanatus (1-4 cent. diam.), membranaceus, rigidulus, subpellucidus (fere tremelloideus, in sicco, visus!), regularis v. plus minusve excentricus, medio primo modicissime prominulus dein depressus subumbilicatusque, margine laxe subinvoluto (in sicco), tenui, acuto, integro, repandulo-undulato, centro fulvescenti- rubescens, ceterum aurantiacus v. rufescenti-aurantius, laevis, glaber; lamellae trimacriae, laxiusculae, majores deorsum latiusculae (1,5-2 mllm. lat.), tenui membranaceae, rigidulae, acie integerrimae, antice attenuato-acutatae, postice rotundato-sinuatae, denticuloque decurrentes, pileo concolores, laeves, rugis transversis subconfertiusculis, centralibus majoribus stricte lamelloideis, concoloribus conjunctae; stipes elongatus, teres v. vix ad tertium inferum subinflatulus (3-7 cent. long. — 3-4 mllm. crass.), rectus v. adscendenti-arcuatus (praecipue et subabrupte basin versus), subcartilagineo-tenacellus, late fistulosus, aurantius v. fulvescenti-aurantius, pubescentia minuta, compacta, adpressa, ad tertium superum minute reticulatim rimoso-disjuncta, flavo-virescens, v. virescenti-fulvella vestitus, basi tamen glabratus noduloseque adnato-coespitosus. Basidia clavulata, utrinque obtusula, hyalina; sporae ellipticae, deorsum lateraliter angulato-acutatae, hyalinae (4-5 × 2-2,5).

Hab. Ad truncos in sylva virginea *Caá-guazú* vocata, Jan. 1882 (sub num. 3384).

Obs. Species eximia, habitu fere *Ag. fascicularis* Huds., ad genus *Marasmius* Fr. nec non *Heliomyces* Lév. nonnihil vergens, ob rugas transversas distinctissima, et facile novum genus!

5. AGARICUS *(Collybia)*? HYMENIICEPHALUS Speg. (n. sp.)

Diag. Solitarius v. laxe gregarius, inodorus; pileus tenui-membranaceus, pellucidus, tenacellus, rigidulus (fere tremelloideus, in sicco!), applanato-expansus (3-3,5 cent. diam.), orbicularis, centro non v. vix depressus, margine acuto, recto, regulari v.

leniter minuteque subrepandulo-undulato, glaberrimus, laevissimus, radiatim laxe modicissimeque subcostulatus, ac plus minusve manifeste ruguloso-reticulatus, albus v. albo-pallescens (fulvescenti-testaceus, in sicco!), centro vix fuscescens; lamellae remotae, strictissimae (0,5-0,8 mllm. lat. centr.), membranaceae, colore et consistentia pilei, polymacriae, utrinque attenuato-acutatae, longiores deorsum breviter denticulo in stipite decurrentes, rugis gracilibus sed plane conspicuis, transversis, marginem versus nullis, centro subconfertiusculis, irregulariter fenestratim conjunctae; stipes teres, gracilis, erectus, rectus (4-5 cent. long. — 2 mllm. diam.), pileo obscurior (fulvescenti-brunneus, in sicco!), glaberrimus, laevissimus, tenui membranaceo-subcartilagineus, latissime fistulosus, basi non v. vix subattenuatus, abrupte nodulosque in mycelio albofibroso latiusculo ac densiusculo radicato-expansus. Basidia et sporae non visa.

Hab. In sylvis subvirgineis ad folia ac ramenta dejecta putrescentia prope *Guarapi*, Jan. 1880 (sub num. 3380).

Obs. Species sectionis dubiae ob sporas desideratas, a genere *Agarico* Fr. satis abhorrens, et *Marasmium* Fr. v. melius *Heliomycetem* Lév. (prope H. pythirodem Lév.) accedens.

6 AGARICUS *(Mycena)* CORTICOLA Pers. = *Fr.* Hym. Eur. p. 152.

Hab. Ad corticem rimulosum arborum inter muscos, in collinis *Cerro pelado* vocatis, prope *Paraguarí*, 10 Jun. 1881 (sub num. 3407).

7. AGARICUS *(Omphalia?)* PARAGUARIENSIS Speg. (n. sp.)

Diag. Mycenarius, campanella, 15-30-fasciculato-coespitosus, truncigenus; pileus subcarnosulo-membranaceus, hemisphaerico-expansus, centro abrupte umbilicatus (1-2 cent. diam.), albus medio fuscescens, margine rectus, tenuis (pellucidus, saepe in sicco), integer, latiuscule striatus; lamellae membranaceae, subconfertiusculae, trimacriae, utrinque acutae, postice conspicue latiores atque regulariter adnato-subdecurrentes, acie integerrimae, pileo concolores; stipes longiusculus, gracilis (5-8 cent. long. — 1-1,5 mllm. crass.), teres, late fistulosus, cortice tenui, fibrosulo-tenacella, fuscescenti-albus, glaber, basi confluenti-fasciculatus, nodulum obconicum (1,5 cent. long. — 4-7

mllm. crass.) carnosulo-lentum fuscescens, albo-pubescentem efficiens. Sporae non visae.

Hab. Ad rimas truncorum putrescentium in sylvis prope *Paraguarí* Maj. 1883 (sub num. 3898).

Obs. Species *Ag. campanella* Batsch valde affinis, stipite non corneo, glabro, etc. recedens; sporis non visis, sectione ergo dubia!

8. AGARICUS *(Omphalia?)* SUCCINEUS Speg. (n. sp.)

Diag. Perpusillus, totus pulchre aurantio-succineus, subpellucidus (fere tremelloideus, in sicco!); pileus primo subglobosus, margine stipite contiguo, subinvoluto ac pallescente, dein hemisphaerico-explanatus (1,5-2 mllm. diam.), glaberrimus, laevissimus, exumbonatus, tenui membranaceo-subcarnosulus, rigidulus (in sicco); lamellae paucae (10-12), distantes, subplicaeformes, pileo concolores, dimacriae, utrinque acutae, in stipite denticulo decurrentes; stipes mediocris, gracilis (2-4 mllm. long. — 0,3-0,4 mllm. crass.), teres, deorsum vix incrassatulus, adscendenti-incurvus, pileo non v. vix obscurior, laevis, glaber, tenuissime fistulosus (?), basi quandoque lenissime subanulato-incrassatulus, albo-puberulus. Sporae non visae.

Hab. In culmis dejectis putrescentibus bambusaceae spinosae cujusdam, prope *Arroyo-guazú* in sylva virginea *Caá-guazú*, 17 Jan. 1882 (sub num. 3377).

Obs. Species minima, pulchella, colore et consistentia distinctissima!

9. AGARICUS *(Pleurotus?)* GUARAPIENSIS Speg. (n. sp.)

Diag. Solitarius v. saepius coespitosus; pileus membranaceo-carnosulus, lateralis, horizontalis, applanatus, dimidiatus (4-5 cent. diam.—2-3,5 cent. lat. antr.-post.), postice truncato-subcuneatus v. subrotundatus, non marginatus, fulvo-ferrugineus v. subtestaceus (in sicco), glaber, laevis, margine tenui, acuto, recto, non v. vix undulato-repandulo; lamellae pileo concolores, subconfertissimae, polymacriae, strictiusculae (1 mllm. lat.), utrinque attenuatae, antice acute postice subabrupte leniterque sinuatae, non v. vix denticulo brevissimo in stipite decurrentes; stipes lateralis, superne cum pileo continuus inferne a lamellis subdiscretus, modicissime incurvo-adscendens, bene evolutus, teres (1-1,5 cent. long. — 3-3,5 mllm.

crass.), deorsum non v. vix incrassatulus intus albus, extus pileo concolor (in sicco), plus minusve sordide albescenti-pruinulosus, basi abrupte in mycelio flocculoso, subevanescente, sordide albido, latiuscule per matricem serpens dilatatus. Sporae non visae!

Hab. In truncis emortuis putrescentibus inter muscos in sylvis prope *Guarapí*, Apr. 1879 (sub num. 3373).

Obs. Pulchellus, notis perplurimis acute distinctus, specimina tamen subobliterata et manca; sporis autem non visis, et sectione dubia, an *Crepidotus*?.

10. AGARICUS *(Pleurotus)* PORTEGNUS Speg.=Fung. Arg. pug. IV, n. 5.

Hab. Ad truncos vetustos muscosos in sylvis prope *Guarapí* Jan. 1881 (sub num. 3383).

Obs. Specimina guaranitica, pileo saepius obovato-v. spathulato-flabellato, postice cuneato-substipitato, ceteris characteribus tamen cum speciminibus bonaërensibus plane congruentia; habitu fere *Crepidoti*, sporis tamen hyalinis, an huc *Agaricus (Crepidotus) phalligerus* Mntg. ducendus?

11. AGARICUS *(Pleurotus)* NAMBÍ Speg. (n. sp.)

Diag. Solitarius v. laxe gregarius, horizontalis; pileus orbiculari-dimidiatus v. obovato-subspathulatus (4-8 cent. diam.—4-6 cent. lat. antr.-post.), postice reniformi-v. attenuato-cuneatus, non marginatus, applanatus, carnosulo-membranaceus, sordide albescens, margine recto, acuto, integro v. plus minusve fissus, leniter laxe subgrosseque striato; lamellae polymacriae, pileo concolores, subcrassiuscule membranaceae, latae (3-4‴ lat.), acie integrae, laxiusculae, utrinque attenuatae, paucae longiores in stipite decurrentes; stipes brevis, mediocris (0,5-1 cent. long.—2,5-3,5 mllm. crass.), tereti-obconicus antice subabrupte in pileo expansus, postice truncato-adnatus, glaber, albescens. Sporae non visae.

Hab. Ad truncos in sylvis subvirgineis prope *Guarapí*, Dec. 1879 (sub num. 3374.)

Obs. Specimina nonnihil manca atque senescentia, ut videtur *Ag. œylocharidi* Mntg. affinis, sed satis (e descriptione) recedens.

12. AGARICUS *(Pleurotus)* LACINIATO-CRENATUS Speg.—Fung. Arg. pug. I, n. 12 (sub *Pano*).

Hab. Ad truncos vivos in sylva *Carapeguá*, 28 Jul. 1883 (sub num. 3901).

Obs. Melius *Agaricus Fr.* quam *Panus Fr.*, secundum specimina viva iterum inventa ac scrutata; in sicco tamen tenacellus!. Forma guaranitica sessilis, pileo albo, lamellis concoloribus, basi albo-hispidula.

13. AGARICUS *(Pleurotus)* MICROSCOPICUS Speg. (n. sp.)

Diag. Resupinatus, laxe gregarius, minutissimus, cyphellaeformis; pileus orbicularis (0,5-2 mllm. diam.), cupulatus, dorsi centro adfixus, tenui-membranaceus, candidus v. albo-hyalinus, glaber, laevis, margine acuto, integro, subinvoluto; lamellae e centro radiantes, concolores, polymacriae, pro ratione latiusculae, confertiusculae, acie integerrimae, ambitna cutatae, centro sinuato-rotundatae. Sporae non visae.

Hab. Ad culmos dejectos putrescentes bambusaceae spinosae cujusdam prope *Arroyo-guazú* in sylva subvirginea *Caá-guazú*, 17 Jan. 1882 (sub num. 3378).

Obs. Species *Ag. perpusillo* Fr. affinis a qua pileorum minutie, lamellis confertis, etc., satis recedens.

14. AGARICUS *(Pleurotus)* APPLICATUS Batsch.=*Fr.* Hym. Eur. p. 180.

Hab. Ad culmos dejectos putrescentes bambusaceae spinosae cujusdam prope *Arroyo-guazú*, in sylva subvirginea *Caá-guazú*, 17 Jan. 1882 (sub num. 3376).

Obs. Specimina guaranitica a typo pilei basi non villosa recedunt; eorum parte antica grisea, postica atra, densiuscule (in sicco) subradiatim rugulosis.

15. AGARICUS *(Pholiota)* PUDICUS Berk.=*Fr.* Hym. Eur. p. 218.

Hab. Ad truncos arborum in sylva *Naranjo* dicta in montuosis *Sierra de Peribebuy* vocatis, Maj. 1883 (sub num. 3897).

Obs. Pileus subhemisphaericus (2-4 cent. diam.), stipes teretiobclavatulus (3-3,5 cent. long.—0,5-1 cent. crass.), albescentes, glabri; velum e margine pilei ad apicem stipitis extensum, persistens (fere ut in *Ag. crassivelo* Speg.), tenue, album, lamellas diu occultans; sporae ellipticae (7-8 × 4-4,5), rubiginosae.

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16. AGARICUS *(Galera)* NEMORICOLUS Speg. (n. sp.)

Diag. Solitarius v. laxe gregarius, inodorus; pileus campanulato-v. hemisphaerico-expansus (2-2,5 cent. diam.), tenui-membranaceus, centro valide mammillato-umbonatus, margine acuto, recto, leniter densiusculeque striatus, glaber, laevis, cinerascenti-fulvus, ad umbonem fuscescens; lamellae tenui-membranaceae, confertissimae, latiusculae (2 mllm. lat.), pileo saturatiores, rufescentes v. ferrugineae, acie integrae, utrinque attenuatae, postice stipite contiguae ac in fundo coni pilei adscendentes; stipes teres, elongatulus, subgracilis (4-5 cent. long.—1,5-2,5 mllm. crass.), cartilagineo-tenacellus, fistulosus, laevis, griseo-v. plumbeo-fuscescens, glaber, basin versus parce gradatimque incrassatulus, et albo-pruinulosus v. velutinus, mycelio fibroso, tenacello, candido, late repente radicatus; sporae elliptico-ovoideae, saepe inaequilaterales (7-9 × 5-6), rubiginosae, granuloso farctae.

Hab. Ad folia sternata nec non ramenta putrescentia in sylvis subvirgineis prope *Guarapí*, Dec. 1881 (sub num. 3381).

17. AGARICUS *(Psalliota)* CAMPESTRIS Linn.=*Fr.* Hym. Eur. p. 279.
var. *pampeanus* Speg.=Fung. Arg. pug. II. n. 6.

Hab. In pratis et campis vulgatissimus prope *Paraguarí*, Maj. 1883 (sub num. 3900).

Obs. Sporae elliptico-inaequilaterales (5-6×3-3,5), atro-purpureae.

18. MARASMIUS *(Rotula)* PALLIPES Speg. (n. sp.)

Diag. Gregarius, erectus, rigidulus; pileus primo hemisphaerico-globosus, dein applanato-hemisphaericus (2-3,5 mllm. diam.), medio umbilicatus, margine incurvus et subgrosse sulcato-impressus, integer, tenui membranaceus, tenacellus, sordide albus (in sicco pallide rufescens), centro vix fuscescens, glaberrimus; lamellae paucae plicaeformes ac subcrassiusculae, pileo concolores, antice attenuatae, postice truncato-adnatae; stipes longiusculus, gracilis (3-4 cent. long.—0,20-0,25 mllm. crass.), erectus, rigidulus, teres v. (in sicco) compressus, sordide albo-fulvescens v. pallescenti-fuscus, laevis, glaber, subsericeo-nitidus (in sicco subflexuosus atque laxe tortus), basi non v. vix subincrassatulus et subater, insititius.

Hab. Ad ramulos et caules humifusos putrescentes in sylvis prope *Guarapí*, Mart. 1880 (sub num. 3379).

Obs. Species pulchella inter *Marasmium androsaceum* Fr. et *M.*

glabellum Pck. fere medium, sed ab utroque notis perplurimis recedens.

19. MARASMIUS (*Rotula*) TRICHORHIZUS Speg. (n. sp.)

Diag. Mycelium rhizomorphoideum, gracile, setae equinae crassitudine v. vix ultra, rigidulum, glabrum, atrum, subnitens, substrigose ramosum, laxissime latissimeque evolutum (20-50 cent. long. et lat.), ad corticem ac praecipue in ejusdem rimis repens; hinc inde ramulos fertiles (seu stipites) paucos, breviusculos (1-2 cent. long.—0,15-0,18 mllm. crass.), erectos emittens. Pileus hemisphaericus (0,5-1 mllm. diam.), glaber, obscure testaceus v. rufescens; lamellae paucae, stricte plicaeformes, pileo concolores; stipes rigidus, erectus, rectus v. subflexuosus (in sicco), ater, subnitens, glaber, laevissimus, ad basin non v. minute leniterque anululato-incrassatulus.

Hab. Ad corticem truncorum putrescentium in sylva virginea *Caá-Guazú*, ann. 1880.

Obs. Species ab omnibus adhuc cognitis forma magnitudineque mycelii inconsuetis distinctissima; specimina senescentia ac nonnihil obliterata, iterum inquirenda ; an novum genus ?

20. LENTINUS (*Eulentinus*) VILLOSUS Klotzsch. = *Fr.* Epic. Syst. Myc. p. 388.

Hab. Ad truncos dejectos putrescentes in sylvis subvirgineis prope *Guarapi*, ann. 1880 (sub num. 3368).

Obs. Pileus hemisphaericus (4-5 cent. diam.), centro late profundeque umbilicatus, glabratus v. laxe squamuloso-furfuraceus ac sordide fuscus, ambitu subinvolutus late densissimeque strigoso-villosus et pallide fulvescens, submembranaceus, coriaceo-rigidulus ; lamellae polymacriae, laxe confertae, membranaceo-rigidae, mediocres (1,5 mllm. lat.), utrinque acutae, ac postice regulariter attenuato-decurrentes, acie subinfuscatae, primo integrae dein minute hinc inde fissae v. erosulae, ligneo-albescentes ; stipes erectus, mediocris, subgracilis (2,5 cent. long.—3–4 mllm. crass.), subteres, antice subabrupte in pileo expansus, postice leniter gradatimque incrassatulus, intus farctus, fibrosus, ligneo-albus, extus sordide fuscus, minutissime puberulo-velutinus v. saepius inferne laxe subvillosulo-furfuraceus.

21. LENTINUS (*Scleroma*) VELUTINUS Fr. = Epicr. Syst. Myc. p. 392.

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Hab. Ad truncos dejectos putrescentes in sylvis subvirgineis prope *Guarapí*, Jan. 1882 (sub num. 3367).

Obs. Pileus cyathoideus v. infundibuliformis (5-6 cent. diam.), submembranaceus, coriaceo-rigidus, erectus, cervinus v. rufescenti-gilvus, ubique pruinuloso-velutinus, margine recto v. laxe extus subrevoluto non v. parce undulatulo, integro v. hinc inde fisso, velutino-hispidulo v. subciliolato ; lamellae polymacriae, confertissimae, strictissimae (0,5-0,7 mllm. lat.), utrinque acutato-attenuatae, acie integerrimae, membranaceo-rigidulae, pileo concolores v. vix pallidiores, regulariter breveque in stipite decurrentes ; stipes erectus, rectus v. basi plus minusve incurvo-adscendens, teres v. deorsum leniter gradatimque incrassatulus, pro ratione gracilis (4 cent. long.—3-5 mllm. crass.) dense hispido-velutinus, pileo concolor v. obscurior, intus submedullose-farctus, albus, plus minusve ac subabrupte nodulose incrassato-adnatus.

Pileus senescens glabratus ac dense et minute (sed parum manifeste) e centro ad marginem striatus; pubescentia stipitis inter lamellas breviter intransibique regulariter abrupteque evanescens.

22. LENTINUS (*Scleroma*) FALLAX Speg. (n. sp.)

Diag. Pileus subhemisphaerico-infundibuliformis (7-8 cent. diam.) submembranaceus, coriaceo-rigidulus, canescenti-fulvus, centro fuscescens ac minute adpresseque subsquamuloso-furfuraceus, ceterum pruinoloso-velutinus, ambitu longe subconferteque (sed subobsolete) striatus, puberulo-hispidulus, margine undulatus interger v. hinc inde fissus, dense hispidulo-ciliolatus ; lamellae polymacriae, laxe confertae, mediocres (1,5 mllm. lat.) ligneo-v. fulvescenti-albidae, membranaceo-rigidulae, acie integerrimae, utrinque attenuatae, breviter ac regulariter in stipite decurrentes ; stipes erectus, rectus, subteres (3-3,5 cent. long.—5-6 mllm. crass.), dense velutino-hispidulus, fulvescenti-cinnamomeus, basi aequicrasse, longe nodoseque innato-radicatus.

Hab. Ad truncos dejectos putrescentes in sylvis subvirgineis prope *Guarapí*, Jan. 1882 (sub num. 3367).

Obs. Species praecedenti peraffinis, habitu fere similis, sed sedulius perscrutata mox dignoscenda; pruinositas stipitis inter lamellas intrans ibique regulariter abrupteque evanescens.

22. LENTINUS (*Scleroma*) PARAGUAYENSIS Speg. (n. sp.)

Diag. Pileus hemisphaerico-applanatus (10-18 cent. diam.) excentrice ac profundiuscule depresso-subinfundibuliformis, membranaceo-coriaceus, rigidulus, sordide albescens (in sicco pallide subfulvescens), lineis exilissimis, vix saturatioribus, subobsoletis radiantibus laxis ac irregulariter interruptis virgatim notatus, laevissimus, glaberrimus, tactu velutinus, opacus, ambitu inflexulus, postice usque ad medium fissus, grosse irregulariterque crenatus, margine strictissimo (0,5-1 mllm. lat.), acuto, subreflexo, velutino-puberulo; lamellae confertae, polymacriae, albidae (in sicco pallide testaceae), utrinque attenuatae, postice in stipite decurrentes; stipes excentricus, incurvo-adscendens, teres, mediocris (3 cent. long.—4-7 mllm. crass.), sublignosus, glaber, laevis, extus pileo concolor, intus farctus, sordide albus, non v. vix incrassatulus ac modice noduloso-adnatus.

Hab. Ad truncos emortuos putrescentes in sylvis subvirgineis prope *Guarapí*, Mart. 1880 (sub num. 3375).

Obs. Species *L. scleropode* Pers. peraffinis, sed lamellis integris, postice non furcatis, ut videtur, satis recedens.

23. PANUS (*Eupanus*) GUARANITICUS Speg. (n. sp.)

Diag. Caespitosus; pileus ex applanato infundibuliformis (7 cent. diam.) subcarnosulo-membranaceus, rigidus saepeque subfragilis (in sicco), extus sordide pallideque testaceus, intus albus in sicco minute laxeque subconcentrice rugulosus, medio glaber, laevis, ambitu laxissime adpresseque squamulis minutis fuscescentibus ornatus, margine saepe strictissime inflexulo, undulato-repandulo, hispido-ciliolato, fulvescente; lamellae polymacriae, confertissimae, strictiusculae (0,5 mllm. lat.), albescenti-fulvae, acie integerrimae, in sicco saepius crispulo-undulatae, utrinque acutatae, brevissime in stipite decurrentes; stipes curtus, crassus (1-1,5 cent. long.— 7-8 mllm. crass.), deorsum incrassatulus, extus fulvescens, velutino-hispidulus, intus sublignosus, albus, basi abrupte nodoseque truncato adnatus.

Hab. Ad truncos putrescentes v. cariosos in sylvis subvirgineis prope *Guarapí*, Nov. 1881 (sub num. 3372).

Obs. Species pulcherrima plurimis affinis, praecipue *Pano conchato* Fr., sed ab omnibus satis recedens.

24. SCHIZOPHYLLUM COMMUNE Grev. = *Fr.* Epicr. Syst. Myc. p. 403.

Hab. Ad truncos excesos v. palos fabrefactos diu intemperiis expositos prope *Guarapi*, ann. 1881 (sub num. 3382).

Obs. Specimina guaranitica omnia plus minusve definite stipitata, pileis flabellatis, margine saepissime pluries proliferis, ac dense laciniato-dissectis, acie integra v. crenato-fissa.

25. LENZITES (*Lignosa*) POLITA Fr. =Epicr. Syst. Myc. p. 404.

Hab. Ad caudices vetustos cariosos in sylvis prope *Guarapi*, Jul. 1879 (sub num. 3389).

Obs. Pileus horizontalis, dimidiatus (10-20 cent. diam. — 5-10 lat. ant.-post.), antice semiorbicularis, postice truncato-subreniformis, ibique, in medio, stipite brevissimo, saepe obsoleto, crasso, noduloso, glabro donatus, subtenuis (1-2 mllm. crass.), coriaceus, rigidus, e sordide albo ad perdilute fuscescenti-carneum vergens, glaberrimus, tactu tamen suavis fere velutinus, opacus, applanatus v. circa stipitem depressus, ceterum applanato-subcucullatus et saepe concentrice leniter zonato-undulatus, margine acuto, recto, integro, repandulo, nonnihil fuscescente; lamellae pileo concolores, in zona postica latiuscula (circa stipitem), majuscule dedaloideo-porosae, continuae v. interrupto-scruposae, ceterum regulares, radiantes, confertae, usque ad marginem productae, hinc inde furcatae v. anastomosantes, tenues, coriacellae, carne parum latiores (2 mllm. lat.), acie integerrima, aequali, obtusiuscule acutata.

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26. LENZITES (*Coriacea!*) UMBRINA Fr. =Epicr. Syst. Myc. p. 405.

Hab. Ad palos fabrefactos prope *Guarapi*, ann. 1880 (sub num. 3387).

Obs. Pileus dimidiato-expansus postice cuneato-v. subreniformi-truncatus, numquam effusus sed linea pulviniformi-incrassata, matrice arcte adhaerente insidens, saepius plures horizontaliter seriati ac lateraliter confluentes, applanatus (4-5 cent. diam. — 2,5-3 cent. lat. ant.-post.), subtenuis (0,5-1,5 mllm. crass.), coriaceo-subcartilagineus, plus minusve flexilis, margine recto, acuto, repando-sublobato, superne umbrinus v. subtestaceus, rarius canescens, minute adpresseque puberulus v. glabratus sed tactu semper suavis fere velutinus; contextus fibroso-flocculosus, e cinnamomeo-testaceus; lamellae laxe confertae polymacriae, latae (2-4 mllm. lat.), tenues, membranaceo-coriaceae, rigidulae, pileo concolores, acie acuta undulata v.

sub-erosa, utrinque attenuatae, aequales, regularissimae, postice nec poroso-connexae nec anastomosantes.

Descriptio Friesiana nonnihil brevis, et cum speciminibus guaraniticis non plane conveniens; an species nova?. Pilei saepissime in parte postica supera lamelligeri; lamellae quandoque subpruinuloso-glaucescentes.

POLYPOREAE FR.

BREDASOLIA Speg. (n. gen.)

Diag. Hymenium inferum, effiguratum, poroso-spongiosum, e laminulis undique versis (horizontalibus et verticalibus) dense intertexto-intricatis compositum, cum hymeniophoro concretis ac non secedentibus.

Fungus carnosus, putrescens, horizontalis, pleurotus.

Genus Mycologo praeclaro tridentino *J. Bredasola* dicatum.

27. **BREDASOLIA PARADOXA** Speg. (n. sp.)

Diag. Pileus horizontalis, semiorbicularis (14 cent. diam. — 5 cent. lat. ant.-post.), deorsum truncato-subreniformis, in stipite breviusculo, crasso ac subcompresso (2-3 cent. long.— 1,5–2 cent. crass.), carnoso farcto, glabro, sordide rufescenti-fulvo productus, subtenue carnosus (1-1,5 mllm. crass.), laevis, glaber, postice rufescenti-testaceus, antice fulvo-canescens v. glaucescens, margine recto, acutiusculo, sublobato v. repandulo-undulato; hymenium subcrassiusculum (3-4 mllm. crass.), subceraceo-carnosum, albescenti-rufum (in sicco, an album in vivo?), spongiosum, e laminulis tenuibus dense strigoseque intertextis, eroso-laceris constitutum, cum carne pilei confluentibus in stipite non v. parcissime foraminulatim decurrentibus.

Hab. Ad truncos vetustos cariosos in sylvis virgineis prope *Paraguarí*, Mart. 1883 (sub num. 3913).

Obs. Genus singulare distinctissimum, habitu Agarici v. Polypori pleuroti cujusdam, hymenio nullo alio comparando, basin Lycoperdi hyemalis Bull. in mente revocante, donatum; specimen unicum, quod adest, ob senectutem nonnihil incompletum, et basidia sporasque diu frustra quaesivi. An tantum monstruositas?

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28. **POLYPORUS** (*Mesopus*) **GUARANITICUS** Speg. (n. sp.)

Diag. Carnosus, truncigenus; pileus cyathoideo-infundibuliformis (7-14 cent. diam.) tenuiter lento-carnosus (2-3 mllm. crass.), laevis, glaber, pallide sordideque testaceus (in sicco), radiatim tenuissime densiuscule ac irregulariter virgatus, margine membranaceo, applanato, acuto plus minusve integro v. irregulariter lobato v. sublaciniato, lobis repando-undulatis, crenulatis v. denticulato-fissis; tubuli minuti, pileo concolores v. pallidiores, ore rotundato-angulato (150-180 diam.), in lobis marginalibus brevissimi saepe vix impressi, centrales longiores (1-2 mllm. long.) ac non rarius subobliqui et in stipite irregulariter laciniatim decurrentes; stipes erectus, curtus, crassus (2-3 cent. long.—5-9 mllm. crass.), e basi non v. vix noduloso-adnata gradatim leniterque incrassatus atque apice in pileo expansus, farctus, glaberrimus, laevis, pileo concolor.

Hab. Ad truncos arborum in sylvis *Santa Barbara* prope *Villa Rica*, Jan. 1882 (sub num. 3365).

Obs. Species eximia in juventute pileo tenui carnosulo-membranaceo, integro v. vix repandulo, hymenio ad marginem latiuscule obsoleto donata; hymenium per omnes aetates in vivo et in sicco continuum nec rimuloso-diffractum.

29. **Polyporus** (*Mesopus*) **paraguayensis** Speg. (n. sp.)

Diag. Carnosus, truncigenus; pileus explanato-infundibularis (8-14 cent. diam.), carnoso-membranaceus (1-2 mllm. crass.), laevis glaber, albus, centro sordide fuscidulus, margine tenuiusculo, obtusiusculo, hinc inde praecipue ad partem posticam fissus (saepe ad stipitem usque), ac irregulariter lobato-crenatus undulatusque; tubuli gracillimi, ore rotundato-angulato (150-200 diam.), breviusculi (1 mllm. long.), marginales vix breviores, centrales non v. vix obliqui, in stipite breviter regulariterque evanescenti-decurrentes; stipes teres, breviusculus, subgracilis (2–2,5 cent. long.—5-6 mllm. crass.), erectus, sordide albopallescens, minutissime pruinuloso-velutinus, basi vix noduloso-adnatus, apice abruptiuscule in pileo expansus, farctus, coriaceo-sublignosus (in sicco). Ut in praecedente, basidia sporaeque non visa.

Hab. Ad truncos arborum in sylvis subvirgineis prope *Guarapí*, Dec. 1881 (sub num. 3364).

30. **Polyporus** (*Mesopus*) **pseudoboletus** Speg. (n. sp.)

Diag. Coriaceo-lentus, terrestris; pileus hemisphaerico-explanatus (5-9 cent. diam.), centro, paecipue in juventute, profunde umbilicatus, glaber, concentrice irregulariterque zonato-sulcatus, obsoletissime et laxe radiato-rugulosus, primo castaneo-fuscus, dein sordide fusco-subater, opacus, cute tenui, carne fibroso-floccosa, pallide ferruginea v. subfulva, tenui (2 mllm. crass.), margine integro non v. vix repandulo, obtusulo, fertili; pori compactiu culi, integri, aequales ore, parvulo (200–250 diam.), rotundato-angulato, dissepimentis tenuibus, aridis, flaccidulis, fusco-cinnamomeis, saepius abbreviati (1,5-3 mllm. long.); stipes brevis, teres, lignosus (4-5 cent. long.—6-8 mllm. crass.), carne alba, intus cavus, cute crustacea, atra, opaca, pruina arcte adnata sordide testacea obductus, basi longiuscule (2-3 cent. long.—5-7 mllm crass.) noduloso-radicatus. Basidia et sporae non visa.

Hab. In detritis ad humum ac terram in sylvis subvirgineis prope *Guarapi*, Apr. 1879 (sub num. 3362).

Obs. Hymenium stipite adpressum sed in eo non confluenti-decurrens, saepeque ibi submarginatum.

31. Polyporus (*Mesopus?*) Lorentzianus Kalchbr. = Fung. e Sib. & Am. austr. p. 21. n. 6.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Guarapi*, 1880 (sine num.).

Obs. Pileus maximus, suborbiculatus (33-35 cent. diam,), applanato–convexus, centro depressus, irregulariter et obsolete subconcentrice ac subradiatim undulatus, utrinque ad medium fissus (an pilei duo pleuroti dorso connati?), suberoso-flaccidus, e tabacino fulvellus non v. vix hinc inde subnitens, glaber, sed tactu asperulo-velutinus (corio instar), margine subrecto, subtumidulo, acutiuscule rotundato, *fuscescente* (!), integro v. repando-undulatus, cute subcrustacea, tenuissima, carne arcte adnata, subfragili; contextus suberoso-floccosus (1 cent. crass.), compactiusculus, fulvescenti-umbrinus, sub cute pallidior; hymenium planum, compactum, durum primo albescens dein pallide fulvescens, non stratosum, margine sterili, crustaceo, fuscescente, sublatiusculo (2 mllm. lat.) limitatum; pori compacti, intus umbrini, pulvere discolori destituti, ad stipitem longiusculi (1 cent. long.), marginem versus gradatim abbreviato-evanescentes, graciles, ore rotundato minimo (100-120 diam.), dis-

sepimentis subtenuibus (35-40 crass.), acie obtusiusculis. Stipes centralis, longiusculus et crassiusculus (10 cent. long.— 3 cent. diam.), durus, lignosus, inaequabilis et undulatus, laevis, glaber, cute crustacea laccata, nitentissima e castaneo purpurascente arcte vestitus.

Species pulcherrima et distinctissima; specimina guaranitica nonnihil a descriptione citata recedunt, sed speciminibus Lorentzianis subtypicis perfecte respondent.

32. Polyporus (*Pleurotus*) parvimarginatus Speg. (n. sp.)

Diag. Carnoso-lentus, parvulus; pileus horizontalis, postice subtruncatus v. cuneatus (2-2,5 cent. diam.— 1,5-2 cent. lat. ant.-post.), in stipite brevi, gracili (5-7 mllm.— 1,5-2 mllm.), horizontali, fuscescenti-subatro, tenuissime olivaceo-pruinuloso productus, tenuis, subcarnoso-lentus, subflaccidulus, carne albo-subfuscescente (0,5 mllm. crass.), margine acutissimo, recto, etiam postice ad originem stipitis prominulo, glaber, laevis v. vix subradiatim rugulosus, castaneo-fuscus; hymenium tumidulum, e poris brevissimis (1-1,2 mllm. long.), densissime stipatis, ore rotundato, minutissimo (120-180 diam.), dissepimentis tenuissimis, albo-pallescentibus (in sicco fulvescentibus) compositum, margine sterili, membranaceo-rigidulo, acuto limitatum, deorsum in stipite subdecurrens sed determinate prominulum.

Hab. Ad ramos emortuos arborum in sylvis subvirgineis prope *Guarapí*, Jan. 1880 (sub num. 3408).

Obs. Species ob marginem sterilem acutum ab hymenio prominulo conspicue distinctum, et ob rugam posticam supram marginalem ab omnibus cognitis mox dignoscenda.

33. Polyporus (*Pleurotus*) auriscalpium Pers. = *Montg.* Ann. Sc. nat. ser. III, v. V. p. 367.

Hab. Ad truncos putridos humo et detritis foliorum obovolutos in sylvis prope Guarapí, Apr. 1879 (sub nnm. 3361).

Obs. Specimina guaranitica ad sectionem *mesopodium* fere vergentia; auriculis posticis pilei connato-confluentibus et vix sinulo et stipite excentrico manifestis; pilei 3-5 cent. diam.; caro 1-1,5 mllm. crass.; tubuli hymenii 3 mllm. long., ore 180-220 diam.; stipites 5-8 cent. long.— 5 mllm. crass. basi longe nodoso-radicati.

34. **Polyporus** (*Pleurotus*) **monachus** Speg. (n. sp.)

Diag Pileus horizontalis, applanatus, dimidiato-orbicularis v. orbiculari-obovatus (10-15 cent. diam.—7-10 cent. lat. ant.-post.) supra planus, antice rotundatus, postice cuneato-incurvus v. reniformi-depressus, lignoso-durus, margine recto, rotundato-acutato, cute crustacea, crassa, carne arcte adnata, sub pressione areolato-fragili donatus, pallide testaceus v. testaceo-fulvus, opacus, glaber, tactu tamen asperulus, obsolete concentrice sulcato-undulatus; caro crassiuscula (0,5-1 cent. crass.), ferruginea v. fulvescenti-umbrina sub cortice pallidior, floccoso-fibrosa, dense obsoletissime zonata; hymenium compactum, planissimum, pulvere primo albo, dein glaucescenti-cinerascenti, postremo autem evanescente obductum, e griseo pallide ferrugineum, antice et postice margine latiusculo (5-6 mllm. lat.), sterili, crustaceo, zonato limitatum; tubuli longiusculi (1,5 cent. long.), umbrino-testacei, intus pulvere grisea obductis, ore rotundato minutissimo (100-120 diam.), dissepimentis crassiusculis (80-100 crass.), acie obtusis, integerrimis. Stipes erectus, rectus, crassus (10 cent. long.—3-3,5 cent, cras.), irregulariter undulatus, subplicatus, durus, lignosus, cute crassa crustacea tectus, pileo concolor, cum eo superne incurvato-confluens, basi abrupte ac modice scutatim dilatatus, dense minuteque scruposo-verrucosus, atque matrici adnatus.

Hab. Ad truncos vetustos in sylvis prope *Paraguarí*, ann. 1880 (sine num.).

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35. **Polyporus** (*Apus?*) **formosissimus** Speg. (n. sp.)

Diag. Placodermeus; pileus horizontalis, applanato-convexus, suborbicularis (15 cent. diam.—10 cent. lat. ant.-post.), antice rotundatus postice subtruncato-reniformis, auriculis cum stipite brevissimo, crasso, horizontali confluentibus, saepeque cum eo plus minusve matrice adnatis, dense sed leniter concentrice sulcatus, sulcis undulato-repandis, cute crustacea, tenui, fragili, carne arcte adnata, laccato-nitentissima, castaneo-olivascente, hinc inde (an in locis tritis?), opaca ac violascens, margine non v. vix incurvulo, obtusiuscule rotundato; carne mediocri (0,5-1 cent. crass.), floccoso-fibrosa, sub cute pallescenti-fulva, ceterum ferrugineo-umbrina, compactiuscula, obsolete zonata; hymenium planum, compactum, durum, aequali, non stratosum, margine sterili stricto, obtuso, sulcato, nitente ac

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olivaceo-castaneo v. opaco et violascente cinctum, etiam in parte postica, primo pulvere albida obductum, dein pallide griseo-fulvescens; tubuli longiusculi (1,5 cent. long. post.), dense stipati, griseo-umbrini, intus pruinula albo-grisea plus minusve obductis, ore parvulo (150-200 diam.), in juventute albo-obturato, dissepimentis mediocribus (40-50 crass.), acie obtusiusculis, integerrimis.

Hab. Ad truncos vetustos cariosos in sylvis prope *Paraguarí*, ann. 1880 (sine num.).

Obs. Species pulcherrima *Polyporo lucido* Fr. formae sessili valde affinis; ad sectionem *pleurotorum* nonnihil vergens ob stipitem, etsi auriculis pilei connatum, manifestum (3 cent. long. — 2,5 cent. diam.), basi late truncato-adnatum.

36. POLYPORUS (*Apus*) HYLOCHARIS Speg. (n. sp.)

Diag. Placodermeus, stratosus; pileus maximus, orbiculari-expansus (30 cent. diam.—25 cent. lat. ant.-post.), postice rotundato-adnatus, superne applanatus, concentrice plurisulcatus, plicis (seu margines pilei annorum praeteritorum) duobus posticis planis distantibus, tribus anticis subungulato-superimpositis, omnibus valde prominentibus, crassis, acutato rotundatis, undulato-zonatis, laxe obsoleteque gibbuloso-undulatus, cute crassa (1 mllm. crass.), durissima, carne arcte adnata, fusco-subatra v. sordide testacea, opaca, laevi v. lepra arcte adpressa testaceo-ferruginea plus minusve obducta, margine subrecto, acutiuscule rotundato, crasso, durissimo, intensius colorato; carne subtenui (0,5-1 cent. crass.) suberoso-floccosa, ferruginea, cuti hymenioque concreta; hymenium planum v. undulatum, primo pulvere albescente obductum dein nudum et pallescenti-ferrugineum, compactissimum, durum, postice leniter effuso-subdecurrens, sed ubique a margine pilei latiusculo (3-10 mllm. lat.), crustaceo, fusco limitatum, atque ab eo zonula sterili prominula, pallidiori, strictiuscula (1, 5-2 mllm. lat.) divisum; tubuli longiusculi, pluristratosi, (strat. 2, 5-4 cent. long.), umbrini, compactissimi, graciles, ore minuto (100-150 diam.), intus plus minusve griseo-pruinulosi, dissepimentis tenuibus (30-35 crass.), acie integerrimis.

Hab. Ad truncos vetustos in sylvis prope *Guarapí*, ann. 1880 (sine num.).

37. POLYPORUS (*Apus*) PACHYOTIS Speg. (n. sp.)

Diag. Placodermeus; pileus horizontalis, orbiculari-dimidiatus (18 cent. diam. — 9 cent. lat. ant.-post.), ex plano subungulatus, antice rotundatus, postice subreniformi-truncatus, cute crustacea, crassa, carne arcte adnata, sub pressione grosse areolato-fragili, pallide testacea v. fulvo-testacea, opaca, glabra, tactu tamen asperula, sulcis 1 v. 2 validis, plurimis aliis subobsoletis, concentricis notata, margine e recto incurvulo, acutato-rotundato, undulato-repandulo, postice medio pulvinato-incrassatus, lateque truncato-adnatus; carne subcrassiuscula, (0.5-1 cent. crass.) ferruginea v. testaceo-cinnamomea, subcortice pallidiore, floccosa-fibrosa, dense obsoletissimeque zonata; hymenium compactum durum, planissimum, primo pulvere sordide alba obductum, dein nudum e griseo pallide sordideque ferrugineum, ubique periferice margine mediocri (1-2 mllm. lat.) subzonato, crustaceo limitatum; tubuli longiusculi (1,5 cent. long.) umbrino testacei, intus pulvere griseo saepius conspersi ore minuto (150 diam.), rotundato-angulato, dissepimentis subcrassiusculis (80)-100 crass.), acie acutiusculis, integerrimis.

Hab. Ad truncos emortuos v. vivos in sylvis subvirgineis prope *Paraguarí*, ann. 1880 (sine num.).

Obs. Species difficillima, perplurimis aliis affinis praecipue *P. monacho* Speg. nec non *P. hylocharide* Speg., sed ut videtur bona. Stipes vere nullus, vix pulvinulus posticus pro stipite rudimentario facile visus.

38. POLYPORUS (*Apus*) DRUMMONDII Klotsch. = *Fr.* Epicr. Syst. Myc. p. 481.

Hab. Ad truncos emortuos putrescentes, nec non ad palos fabrefactos prope *Guarapí*, ann. 1879 (sub num. 3403).

Obs. Pilei coespitosi, orbiculato-dimidiati, postice truncato-adnati latiusculeque effuso-decurrentes, applanati (2-3 cent. diam. —1-5 cent. lat. ant.-post,) coriacei, flacciduli, supra subradiatim virgato-fibrosi, ac adpresse fibroso-squarrosi, margine recto, acuto, dense fimbriato-ciliato, sordide albidi; caro tenuis, submembranacea, (0,4-0,7 mllm. crass.), flaccido-fibrosa, sordide alba; hymenium flaccidum, laxum, sordide album usque ad marginem evanescenti-productum, zonula fimbriata limitatum; tubuli breves (2 mllm. long. ad bas.), flaccidi, albidi, intus puberuli,

ore subirregulari, rotundato-anguloso, non v. vix hinc inde confluenti-sinuoso, sublatiusculo (300-350 diam.), dissepimentis tenuibus (25-30 crass.), acie acutissima, integra v. vix erosulo-sinuata.

39. POLYPORUS (*Apus*) LUNDII FR.? = Epicr. Syst. Myc. p. 479.

Hab. Ad truncos et ramos emortuos in sylvis prope *Guarapi*, ann. 1880 (sub num. 3394).

Obs. Pileus applanatus, dimidiato-expansus (5-14 cent. diam. — 3-6 cent. lat. ant.-post.), tenui membranaceo-coriaceus, rigidulus, postice truncato-adnatus, non v. vix decurrenti-effusus, margine recto, integro v. repando, acuto, superne dense striato-zonatus, zonis strictis adpresse velutino-hirsutulis, sordide fusco-pallidis, posticis (sulciformibus), saepius glabratis, obsolete et pallide fusco-purpurascentibus; caro alba, fibrosa, compacta, tenuis (0,8-1,2 mllm. crass.); hymenium laeve, regulare tenue, sordide fuscescenti-album; tubuli brevissimi (0,3-0,5 mllm. long.), intus albo-puberuli, ore minuto (150-200×120-160) elliptico v. rotundo, obtuse polygono, dissepimentis subtenuibus (30-35 crass.), acie obtuse acutatis.

40. POLYPORUS (*Apus*) VERSICOLOR Fr. = Epicr. Syst. Myc. p. 478.

Hab. Ad truncos et palos vetustos putrescentes prope *Paraguarí*, Jul. 1883 (sub num. 3910).

Obs. Specimina guaranitica varietatem pulcherrimam, nondum descriptam, sistunt; pilei coespitosi, dimidiato-expansi, tenues, rigidi, superne *azoni* (!), *unicolores*, sordide fusco-gilvi ad centrum, marginem versus pallidiores, laeves, plani, pubescenti-velutini; hymenium stratosum (!), et strati vetusti facillime a junioribus secedentes; natura, habitu, pororum forma et colore formae typicae, et ab ea non separanda.

41. POLYPORUS (*Apus*) UMBONATUS Fr. = *Kalchbr.* Fung. ex Sib. & Am. aust. p. 22.

Hab. Ad truncos nec non palos fabrefactos diu intemperiis expositos prope *Paraguarí*, Jun. 1883 (sub num. 3909).

Obs. Pileus membranaceo-coriaceus, applanatus, rigidulus (5-8 cent. diam. — 3,5-4 cent. lat. ant.-post.), postice truncato-adnatus, superne parce laxeque concentrice striato-sulcatus, adpresse hirsutus, griseus, sulcis strictissimis vix obscurioribus, saepe-

que glabratis ac sericeo-nitentibus, margine recto, acuto, integro; caro tenuis (0,3-0,5 mllm. crass.), fibrosa, candida cum hymenio concreta; pori albo-pallescentes subirregulares (0,5-0,8 mllm. long.), majusculi (0,5-1 mllm. diam.), dissepimentis irregularibus, acutis, plus minusve laceris (subdentiformibus), obsolete subconcentricis, zona marginali sterili nulla.

Species *Polyporo pinsito* Fr. perquam affinis, nisi identica (?), et ad genus *Hexagonam* Poll. vergens.

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42. Polyporus (*Apus*) Balansae Speg. (n. sp.)

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Diag. Inodermeus; pileus suberoso-coriaceus, rigidus, perfecte applanatus, semiorbiculari-expansus (5-6 cent. diam. — 2-3 cent. lat. ant.-post.), margine tumidulo, crassiusculo, obtuse rotundato, postice truncato-adnatus, vix decurrenti-effusus, superne densiuscule concentrice sulcatus, zonis prominulis subgilvis, opacis, adpresse (tactu et lente tantum) velutinis, sulcis valde strictioribus, glabris, rubescentibus ac subsericeo-nitentibus; hymenium ferrugineum, zona marginali tumidula, sterili, latiuscula (2 mllm. lat.) subvivide fulva limitatum, contextu fibroso-floccoso, compacto, fulvo-ferrugineo v. gilvescenti-ferrugineo, subtenui (2,5-3 mllm. crass.), ubique aequicrasso; tubuli postice curti (1-1,2 mllm. long.), marginem versus gradatim abbreviati, intus pallide griseo-pruinulosi, ac ubique laxe *setulis tereti-obconicis*, *ferrugineis*, *minutis* (20-25 ×5-6), *exertis* armati; ore rotundo, parvulo (100-120 diam.), aequali, dissepimentis tenuibus (25-30 crass.), acie acutiuscule obtusatis, integerrimis.

Hab. Ad palos fabrefactos diu intemperiis expositos prope *Guarapí*, ann. 1880 (sub num. 3396).

Obs. Species nobilissima, pileo eximie applanato, fere ubique aequicrasso distinctissima, *P. Swartziano* Lév., et *P. gilvo* Schw. affinis, sed ob setulas hymenii longe abhorrens et facile ad novum genus vergens!

43. Polyporus (*Apus*) byrsinus Mntgn. = Fl. Cub. v. IX, p. 237.

Hab. Ad truncos atque palos dejectos putrescentes prope *Guarapí*, ann. 1880 (sub num. 3393).

Obs. Pilei horizontaliter seriati, lateraliter confluentes, orbiculari-dimidiati (5-10 cent. diam.—3-8 cent. lat. ant.-post.), applanati deorsum saepe decurrenti-effusi, subtenues, flaccido-flexi-

billimi, e gilvo v. fulvo tabacini margine obtusiusculo, rugula acuta terminato; contextu floccoso-fibroso, fulvescente (2-4 mllm. crass.), hymenio pallescenti-fulvo, vix evoluto, zona marginali sterili (1-2 mllm. lat.) limitato; poris rotundis, vix hemisphaerico-impressis, subminutis (200-230 diam.), dissepimentis vix manifestis, obtusis, sub lente velutinis.

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44. POLYPORUS? (*Apus*) LUDENS Speg. (n. sp.)

Diag. Pilei dimidiato-expansi (3-5 cent. diam.—2-3 cent. lat. ant.-post.) postice truncati v. cuneati non v. parcissime decurrenti-effusi, tenui-membranacei, rigidi, supra applanati, longitudinaliter undulati, non v. obsolete concentrice zonati, fusco-canescentes, adpresse minutissimeque pruinulosi, periphaerice manifestius, ac ibi saepe obsoletissime subviolascenti-sulcati, margine recto v. leniter incurvo, glabrato, subsericeo-nitente, tenuissimo acutissimoque, minute hinc inde fisso; caro fuscescens, compacta, fibrosa, tenuis (0,3-0,4 mllm. crass.), tenax, rigidula; hymenium fuscescens v. umbrinum, postice sub irpicoideum, antice irregulariter evanescenti-porosum, zona marginali sterili, fibrosa (1 mllm. lat.) limitatum; pori vix impressi, dissepimentis, posticis elongatis (0,5-0,8 mllm. long.), anticis fere ullis, irregulariter lacerato-irpicoideis, acie acuta integra v. lacerato-erosa, tenuibus, interstitiis strictissimis.

= P. sector fide Speg in Rev. Arg. 1926 p. 384

Species *Polyporo pergameneo* Klotzsch nec non *P. pseudo-pergameneo* Thüm., affinis, sed speciminibus comparatis plane distinctus, an melius *Polyporum sectorem* Fr. accedens?. Hymenii natura autem ad genera *Dedaleam* Pers. v. *Irpicem* Fr. vergens.

Hab. Ad truncos cariosos prope *Guarapí*, ann. 1880 (sub num. 3395).

45. POLYPORUS (*Apus*) TABACINUS Mntgn.?=*Fr.* Epicr. Syst. Myc. p. 480.

Hab. Ad truncos atque palos fabrefactos prope *Paraguarí* et *Guarapí*, per ann. 1880-83 (sub num. 3911-3397).

Obs. Pileus coriaceo-membranaceus, tenuis, rigidulus, flabellato- v. dimidiato-expansus, applanato-convexulus, margine acuto, integro, incurvulo, postice cuneatus, v. truncatus, non v. parce decurrenti-effusus, superne rufescenti-tabacinus v. cinnamomeo-ferrugineus, dense concentrice sulcato-zonatus, zonis tumidulis, velutino-tomentosis; contextu tenuissimo (0,15 mllm.

crass.), fibroso, cute floccosa (zonas tumidulas 0,5-2 mllm. crass. efficiens) tecto ; hymenium pallide grisescenti-cinnamomeum, tubulis peraegre sed regulariter a pileo secedentibus, eoque pallidioribus, subflaccidulis, deorsum curti (1,5-1,7 mllm. long.), gradatim marginem versus abbreviatis ac evanescentibus, zona sterili nulla v. vix perspicua, ore minuto in marginalibus subregulari, rotundato-angulato, (200-250 diam.), in posticis confluenti-labyrinthiformi, subdaedaleoideo sed confertis et minutis, dissepimentis tenuibus (25-30 crass.), acie acutis, intus setulis minutis (15-20×5-6), rigidulis, cinnamomeis, rectis, teretibus, apice attenuato acutatis saepeque albo-appendiculatis laxe ornatis.

Species pulchella, sed incertus sum si verum *Polyporum tabacinum* Mntgn. sistat, nam nulla mentione de setulis hymenii in diagnosibus; an nova species?. Si talis eam *P. pseudotabacinum* Speg. vocabo. Ut jam monui in *Polyporo Balansae* Speg. facile novi generi!

46. POLYPORUS (*Apus*) SUBTROPICALIS Speg. (n. sp.)

Diag. Inodermeus; pileus suberoso-coriaceus, rigidus, subtenuis, utrinque applanatus, orbiculari-dimidiatus (6-9 cent. diam.— 4 cent. lat. ant.-post.), postice non v. vix subumbonatus, late truncato-adnatus atque plus minusve decurrenti-effusus, lateribus obtuse rotundatis, margine recto, acuto, integro, superne plurizonato-sulcatus, zonis prominulis sordide pallideque griseo-testaceis, latiusculis, velutino-hirtis, sulcis (1 v. 2 tantum latiusculis) strictis, glabratis subsericeo-nitentibus, castaneis v. purpurascentibus antice fimbriatim in zonis intrantibus; caro floccoso-fibrosa sordide e pallido v. albescenti griseo-subumbrina, subtenuis (1,5-2,5 mllm. crass.); hymenium album v. sordidule pallescens, tubulis mediocribus, posticis longioribus (2-2,5 mllm. long.), gradatim abbreviatis, ac zonam marginalem latiusculam (2 mllm. lat.), sterilem relinquentes, intus laxe albo-araneosis, ore minuto (150-200 diam.) rotundo v. subelliptico, in juventute pruinula alba obducto, dissepimentis crassiusculis (80-100 crass.), acie obtuse rotundatis, integerrimis.

Hab. Ad truncos vetustos putrescentes passim prope *Guarapí*, Apr. 1879 (sub num. 3400).

47 POLYPORUS (*Apus*) GILVUS Schwn. = *Fr.* Epicr. Syst. Myc. p. 456.

Hab. Ad truncos arborum frondosarum vulgatus in sylvis prope *Paraguari*, Jul. 1883 (sub num. 3912).

Obs. Pilei subcoespitosi, superne irregulariter scrupuloso sub-verrucosi, subundulati e dilutissime carneo gilvi (5-10 cent. diam. —3-6 cent. lat. ant.-post.) margine acuti, postice truncato-adnati; hymenium compactum, gilvo-cinnamomeum v. ferrugineum, rarius subvirescens; contextus vivide fulvo-ferrugineus (2,5-5 mllm. crass.); tubuli stipati, postici longiusculi (1,5-2 (rarius 3) mllm. long.), gradatim marginem versus abbreviati ac evanescentes, ore rotundo v. obtuse angulato, minutissimo (70-80 diam.),dissepimentis tenuibus (20 crass.), acie acutis, integris.

48 POLYPORUS *(Apus)* SANGUINEUS Linn. = *Fr.* Epicr. Syst. Myc. p. 444.

Hab. Vulgatissimus ad caudices et truncos putrescentes ubique prope *Guarapi*, ann. 1881 (sub num. 3385).

Obs. Specimina guaranitica sistunt var. *Sessilem* Kalchbr. (Fung. Sib. et Am. austr. p. 22) et tandem inter apodes inscribenda.

49 POLYPORUS *(Apus)* VERRUCOSO-HIRTUS Speg. (n. sp.)

Obs. Anodermeus, parvulus ; pileus horizontalis, orbiculari-dimidiatus, subungulato-pulvinatulus, (2,5 cent. diam.—2 cent.lat. ant.-post.) postice subreniformi rotundato-truncatus, late adnatus, ibique conspicue et subabrupte incrassatus (1 cent. crass.), fusco-testaceus v. subcastaneo-fuscus, superne basi adpresse hirto-squamulosus, squamulis marginem versus gradatim relaxatis, crassioribus, irregulariter sublaminiformibus, compressis, subadpressis concoloribus, valleculis subnitentibus, margine integro, obtuse rotundato; contextu suberoso-floccoso, compacto, fulvescenti-ferrugineo, homogeneo, in parte postica incrassata, sublaxiore ac subpallidiore, granulis irregularibus sordide albescentibus insperso; hymenium inferum irregulariter ac modice undulatum, postice in parte incrassata pilei subdecurrens sed definitum, ac submarginatum, sordide testaceo-fulvescens; pori rotundi, minuti (80-100 diam.), vix impressi (150 prof.), dissepimentis crassiusculis (80-100 crass.), acie obtusis, integris, marginem versus evanescentes, ac zona sterili sublatiuscula circumdati.

Hab. Ad truncos decorticatos emortuos in sylvis prope *Guarapí*, Jul. 1879 (sub num. 3363).

Obs. Species pulchella, typo constante ac eximie definito (specimina plurima omnia conformia), squamis pilei, hymenio vix evoluto ac cum contextu concreto distinctissima, nec non ad genus *Trametem* Fr. accedens; hymenium sub lente valida perscrutatum minute denseque puberulo, ac pori prima juventute (an molles?) pruinula concolori saepius repleti.

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50. POLYPORUS *(Resupinatus)* CRYPTACANTHUS Mntgn. = Ann. Sc. Nat. S. IV, t. V. p. 369.

Hab. Ad truncos decorticatos putrescentes in sylvis subvirgineis prope *Guarapi*, ann. 1880 (sub num. 3392).

Obs. Effusus, majusculus (30-50 cent. diam.), subrigidulus, saepeque e tenacello fragilis, tenuis (0,1-0,2 mllm. crass.), inferne ligno v. in pileis annorum praeteritorum laxe adnatus; ibique fulvo-ferrugineus v. gilvus, glaber sed tactu molli-velutinus, subscrupulosus, margine acuto, libero, recto, tenuissime membranaceo, repando-sinuoso (fere ut pilei plures minores orbiculari-expansi et confluentes), integro v. subdenticulato-erosulo, superne cinnamomeus, poris dense stipatis, curtis (1-1,5 mllm. long. centr.), ore rotundato-angulato, subminuto (200-250 diam.), v. saepius (centrum versus praecipue), 3-4 confluentibus ac sinuoso-labyrinthoideis, dissepimentis tenuibus (15-25crass.), aequalibus, acie acutis, integris, cinnamomeis, intus ubique setulis ochraceis, parvulis (30-40 × 6-7), acutis laxe armatis, margine latiusculo (1-2 mllm. lat.), sterile, tenui, applanato, glabro, gilvo-ferrugineo, ac subnitenti-sericeo limitatis. In pileis vetustis hymenium canescenti-argenteam evadit.

51. POLYPORUS *(Resupinatus)* PHYTODERMA Speg. (n. sp.)

Diag. Effusus, latissime ambiens (50-80 cent. diam.), laxe matrici adnatus, ambitu non v. hinc inde strictissime reflexulus, membranaceo-coriaceus, subtenuis (0,20-0,25 mllm. crass.), inferne laxe punctulatim noduloso-adhaerens, laevis, glaber, ligneo-fuscescens, circa nodulos sordide subpurpurascens, margine vix libero, concolore velutino-subpuberulo, contextu xylostromatoideo, sordide pallescenti-albo; pori subminuti (150-200 diam.), constipati, aequales, breviusculi (1 mllm. long.). fulvo-subcanescentes, centrales e rotundato angulato-polygoni, periphaerici decurrenti-elongati, margine rigidulo, acuto, re-

pandulo, saepe lobulato v. plicatulo, plus minusve late (0-5-1,5 mllm. lat.) sterile pallidiore limitati, dissepimentis tenuibus (30-40 crass.), acie integerrimis et obtusiuscule acutatis, intus laxe canescenti-pruinulosis.

Hab. Ad ramos arborum dejectos atque decorticatos in sylvis subvirgineis *Guarapi*, ann. 1880 (sub num. 3391).

52. TRAMETES *(Phaeocreus)* HYDNOIDES (Swartz) *Fr.* = Epicr. Syst. Myc. p. 490.

Hab. Ad palos et truncos humifusos putrescentes prope *Guarapi*, Jul. 1881 (sub num. 3386).

Obs. Species distinctissima et pulcherrima; pilei applanati, orbiculari-dimidiati (7-15 cent. diam. — 4-8 cent. lat. ant.-post.), postice truncato-adnati, rarius subcuneato-truncati, margine acuto; setulis pilei intricato-ramosulis, lamelloideis, (3-6 mllm. long.); contextu compacto, suberoso-floccoso, fusco-ferrugineo, subtenui (2-3 mllm. crass. bas.); hymenium pallescenti-ferrugineum v. gilvescens, tubulis longiusculis (2-3 mllm.), gradatim marginem versus brevioribus, zona sterili nulla v. vix strictissima circumdatis, ore rotundato, minuto (150-200 diam.), dissepimentis mediocribus (50-80 crass.), acie obtusis, integris, intus griseis ac sub lente valida puberulis.

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53. TRAMETES *(Phaeocreus)* OCCIDENTALIS Klotzsch = *Fr.* Epicr. Syst. Myc. p. 491.

Hab. Ad truncos vetustos arborum frondosarum passim prope *Guarapi*, ann. 1880 (sub num. 3399).

Obs. Pilei majusculi, suborbiculato-dimidiati (7-15 cent. diam. = 4-9 cent, lat. ant. — post.), ex applanato convexuli, suberoso-coriacei, rigidi, postice truncato- adnati, superne densiuscule velutino-hirsutuli, dense concentrice sulcati, pallide ex albo olivascentes v. gilvescentes, unicolores v. vix sulcis paucis vix obscurioribus, margine acuto, subincurvulo, integro; caro compacta, dura, sublignosa, contextu fibroso-floccoso, non v. obsolete zonata, pallide sordideque lignicolor v. fusco subgilvescens, pro ratione tenuis (2-3 mllm. crass. bas.), a zona corticali crassiuscula, flocculosa, linea exili subnigricante acute limitata; hymenium compactum, rigidum, applanatum v. leniter concavum, irregulariter laxeque undulato-scrupulosum sordide pallideque e testaceo v. gilvo lignicolor; poris postice longiusculis

(0,5-1 cent. long.), gradatim marginem versus abbreviatis, zona sterili strictissima v. nulla circumdatis, ore mediocri, irregulari (0,2-0,7 mllm. diam.), rotundato v. elongato, anguloso, dissepimentis subcrassiusculis (80-100), acie acutiusculis, integris, sub lente valida laxe araneoso-puberulis.

54. HEXAGONA *(Coriacea)* SCUTIGERA *Fr.*?=Epicr. Syst. Myc. p. 497.

Hab. Ad truncos dejectos humo obovolutos prope *Guarapi,* anno 1879 (sub num. 3481).

Obs. Pilei applanati, dimidiato-expansi (7-8 cent. diam. — 4-5 cent. lat. ant.-post.), postice truncato-subreniformes, medio pedicello (?) vix evoluto dilatato-adnato donati, coriaceo-suberosi, rigidi, superne olivaceo-fusci, unicolores, non v. vix obsolete concentrice subsulcati, velutini, margine subacuto, recto saepius nonnihil pallidiore ac subglabrato, carne fibroso-floccosa, compacta, pallide testacea v. fulvescenti-olivacea, tenui (2 mllm. crass.); hymenium pallidum, e fulvescente griseum, parcissime ac obsolete subconcentricum, zona marginali pallida, latiuscula (1,5 mllm. lat.), etiam postice limitatum; alveoli brevissimi (0,5 mllm. prof.), ore majusculo (0,7-0,8 mllm. diam.), obtuse rotundato-hexagono, sat regulari, dissepimentis subcrassiusculis, acie acutato-rotundatis, intus (praecipue in fundo) pulvere albescenti-grisea conspersis. Scutum posticum (sec. *Fr.* l. c.) deest v. vix manifestum; an species diversa?

55. HEXAGONA *(Membranacea)* FRIESIANA Speg. (n. sp.)

Diag. Pileus membranaceo-coriacellus, dimidiato-expansus (4-6 cent. diam. — 2,5-4,5 lat. ant.-post.), saepius plures seriati ac lateraliter confluentes, postice truncato-adnatus, plus minusve per matricem decurrenti-effusus, rigidulus, margine acuto, tenui, recto, superne dense concentrice striatus v. rarius sulcatus, adpresse velutino-hirsutulus, e gilvo griseus, sulcis strictissimis vix obscurioribus et glabratis, contextu fibroso, tenui (0,5 mllm. crass.), albescenti-fusco, cum hymenio concreto; alveoli pallescenti-fusci, obscure subconcentrici, brevissimi (0,5-0,7 mllm. prof.), majusculi (0,5-0,7 diam.), irregulares, postici decurrenti-obliqui, dissepimentis acie acutissimis, irregularibus, saepe dentiformiter elongatulis, marginem versus obtusioribus ac abbreviato-evanescentibus, zona marginali non v. vix evoluta limitatis.

Hab. Ad palos fabrefactos diu intemperiis expositos prope *Guarapí*, ann. 1879 (sub num. 3402).

Obs. Species *Polyporo Friesii* Klotzsch, ut videtur, valde affinis, sed sub-genere *Hexagona* melius militans; generi *Cyclomyceti* Kunz. etiam nonnihil vergens, ac *C. fusco* Kunz. affinis.

56. GLEOPORUS *(Apus)* CANDIDUS Speg. (n. sp.)

Diag. Pilei applanato-subconchati, horizontaliter seriati, lateraliter confluentes, postice truncato-adnati, non v. breviter effuso-decurrentes, subparvi (2-3 cent. diam. — 3,5-2 cent. lat. ant.-post.), tenues, coriaceo-flacciduli, superne parce obsoleteque concentrice striati, candidi v. vix pallescenti-albi, glabri, sed tactu velutino-molles, v. (praecipue ad marginem) velutino-puberuli, margine latiuscule incurvo, acuto; caro alba (1-2 mllm. crass.), compatiuscula, azona; hymenium ceraceo-gelatinosum, compactiusculum, a carne eximie limitatum, planum v. vix subconcentrice undulatum, porose effiguratum, sordidule subroseo-ceraceum; pori breviusculi (0,5 mllm. long.), a carne zona hymeniali tenui separati, dense stipati, ore rotundato v. elliptico, obtuse angulato, minuto (80-100 diam.), dissepimentis tenuibus (20-25 crass.), acie acutis, integris.

Hab. Ad truncos decorticatos putrescentes in sylvis prope *Guarapí*, anno 1880 (sub num. 3398).

Obs. Species pulcherrima, *G. choncoidi* Mntgn. affinis; an ejusdem varietas, pileo albo donata, tantum?

57. LASCHIA GUARANITICA Speg. (n. sp.)

Diag. Pileus ex orbiculari dimidiatus, parvulus (7-8 mllm. diam. — 5 mllm. lat. ant.-post.), carnosulus (0,5-0,6 mllm. crass.), convexulus, glaber, laevis, margine integerrimo, subincurvo, acuto, postice rotundatus ac plus minusve reniformis, non marginatus ibique medio depressus atque in stipite brevissimo (0,5-0,7 mllm. long. — 0,5-0,6 mllm. crass.), tereti, albo, glabro v. farinosulo, basi truncato-adnato, productus; hymenium planum, ubique aequale, albo-alutaceum; pori mediocres (0,3-0,5 mllm. long.), ore rotundato v. subelongato (150-300 × 100-150), non angulato, dissepimentis tremelloideis, tenuibus (20-30 crass.), acie integerrimis, obtusiusculis.

Hab. Ad ramos emortuos in sylvis prope *Guarapí*, Jan. 1883 (sub num. 3917).

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Obs. Species, in Fungis Argent. Pug. IV, n. 28, sub *L. papulata* Mntgn. descripta, a typo longe abhorret, et melius, ut forma macropoda hujus speciei, adscribenda!

58. **Favolus paraguayensis** Speg. (n. sp.)

Diag. Solitarius; pileus dimidiato-reniformis, applanatus, postice carnosulus (carn. 3 mllm. crass.), non marginatus, antice tenuissime membranaceus, subpellicidus, margine integro vix repandulo, acuto, recto, superne canescenti-fulvellus (intus albus), deorsum minutissime laxeque pruinuloso-subvelutinus, ceterum glaber; lamellae albae (in sicco fulvescentes), tenui membranaceae, latiusculae (1,5 mllm. lat.), marginem versus gradatim postice subabrupte evanescenti-attenuatae; alveoli rhomboidei, periphaerici subparvi (1 mllm. diam.), subrotundati, postici majores, elongati (3-4 mllm. long. — 2 mllm. lat.), acute angulati; stipes curtus, crassus, teres (2 cent. long. — 1 cent. crass.), canescenti-fulvescens, hispido-velutinus, carnosus, albo-factus, basi abrupte truncato-adnatus.

Hab. Ad ramos languentes v. emortuos *Citri aurantii*, prope *Paraguarí*, Maj. 1883 (sub num. 3906).

59. **Favolus speciosus** Speg. (n. sp.)

Diag. Solitarius, parvulus; pileus dimidiato-reniformis (3-4,5 cent. diam. — 2-2,5 cent. lat. ant.-post.), applanatus, postice marginato-fissus, ac umbilicatulus (an primo excentrice infundibuliformis ?), auriculis majusculis, late rotundatis, tenui membranaceus, fuscescenti-testaceus, centro pallidiore, margine infuscato, integro, subinflexo; lamellae rhombice connexo-reticulatae, laxiusculae, latiusculae (1 mllm. lat.), basi subcrassiusculae, acie membranaceae, flaccidulae, pileo concolores, integerrimae, alveolis anticis subrotundatis, minoribus (1 mllm. diam.) posticis gradatim majoribus, elongatis (4 mllm. long. — 1,5 mllm. lat.), in stipite non v. vix decurrentibus; stipes longiusculus, gracilis (1 cent. long. — 1,5 mllm. crass.), teres v. deorsum parce attenuatus, glaberrimus, laevissimus, pileo concolor, basi abruptiuscule dilatato-adnatus.

Hab. Ad ramos languentes v. emortuos in sylvis prope *Guarapí*, 30 Maj. 1883 (sub num. 3918).

Obs. *Favolus tenuissimus* Lév., diagnosi, huic valde affinis!

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60. **Favolus fimbriatus** Speg. (n. sp.)

later said to be = F. giganteus Mont.

Diag. Pileus dimidiatus (10-12 cent. diam. — 5-6 cent. lat. ant.-post.), albus, in sicco alutaceus, submembranaceo-carnosulus (1 mllm. crass.), flaccidus, applanatus, laevis, postice crassiuscule marginatus, ac laxe parceque hispidulo-velutinus, ceterum glaber, margine integro, undulato-repando v. lobato, tenui, membranaceo, subinflexulo saepeque denticulato; lamellae latiusculae, albae, glabrae, alveolis subaequalibus, marginalibus vix minoribus (3–5 mllm. long. — 1-2 mllm. lat.), acie acutae ac densiuscule ciliato-fimbriatae (v. melius denticulato-fimbriatae); stipes brevis, subtuberculiformis (5-8 mllm. long. — 5 mllm. crass.), albus, laxe hispidus, truncato-adnatus.

Hab. Ad ramos emortuos arborum prope *Paraguarí*, Jun. 1883 (sub. num. 3907).

Obs. Species pulcherrima lamellis fimbriatis valde insignis, ac mox dignoscenda, *Favolo tessellato* Mntgn., ut videtur, affinis, sed pileus non papulatus.

61. Favolus fissus Lév. = Ann. Sc. Nat. III, v. 2, p. 201.

Hab. In truncis v. ramis cariosis emortuis prope *Guarapí*, Jun. 1883 (sub num. 3905).

Obs. Pileus dimidiatus (7–8 cent. diam. — 4 cent. lat. ant.-post.), applanatus, e membranaceo carnosulus, flaccidus, opacus, albus (in sicco alutaceus), glaber, laevis, postice truncatus, latiuscule marginatus (evidenter in juventute infundibuliformis) integer dein fere usque ad stipitem fissus, ibique umbilicatulus, margine lobato-crenato, recto v. incurvulo, tenui membranaceo, saepeque subdenticulato; lamellae rhombice reticulato–connexae, basi sublatiusculae (1-1,5 mllm. lat.) acie integrae v. vix hinc inde erosulae, membranaceae, alveolis obtuse angulatis, subaequalibus, mediocribus (2-3 mllm. long. — 1 mllm. lat.), marginalibus vix minoribus; stipes tuberculiformis, irregularis (5 mllm. long. — 4-5 mllm. crass.), pileo concolor, albo-farctus, laxe breviterque hispidulus.

62. Favolus laciniatus Lév. — l. c. p. 203.

Hab. Ad. truncos putrescentes cariosos in sylva virginea *Caáguazú*, Jan. 1882 (sub. num. 3366).

Obs. Coespitosus, magnus; pileus (15-20 cent. diam.) carnosus, flaccidus, (in sicco) lentus, quandoque dimidiato-horizontalis, quandoque excentrice infundibuliformis, grosse inciso-laciniatus

laciniis elongato-obovatis v. subspathulatis, albus (in sicco alutaceus), laevis, basin versus subfarinosus v. pruinulosus, ceterum glaber, margine fuscescente (in sicco), undulato-repando, denticulato-eroso, recto, tenui-membranaceo; lamellae latiusculae (2 mllm. lat.), basi crassiusculae, acie membranaceae, integerrimae, rhombice reticulato-connexae, alveolis subaequalibus (4-7 mllm. long. — 1-1,5 mllm. lat.), albescentibus, in sicco fuscescenti-fulvis, in stipite excentrico v. laterali, obconico mammiforme, brevissimo, concolore, glabro v. pulverulento, basi truncato-adnato decurrentibus.

Species, ut videtur, *Favolo flaccido* Fr. perquam affinis.

63. **Porothelium bombycinum** Speg. (n. sp.)

Diag. Effusum (3-5 cent. long. — 1–2 cent. lat.), candidum, molliter gossypino-compactiusculum, tenue (0,30-0,35 mllm. crass.), margine undulato, repando-sinuoso v. lobato, determinato, subattenuato, ubique matrice arcte adnatum; verruculae laxae, concolores, gossypino-compactiusculae, immersae, primo globosae, clausae (150 diam.), dein ore rotundato-aperto superficem attingente (50-70 diam.), intus glabrae, ceraceo-albae; basidia minutissima (5-7 × 2-2,5), hyalina, clavulata, apice 3-sterigmatofora; sporae non visae.

Hab. Ad culmos dejectos putrescentes bambusaceae cujusdam, in sylvis prope *Carapeguá*, 24 Jul. 1883 (sub num. 3893).

Obs. Species pulchella, distinctissima, lactea, verrucis discretis, cyphelleformibus mox dignoscenda; senescendo obliteratur ac pallide fulva evadit.

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HYDNEAE FR.

64. **Hydnum** *(Pleurotus)* **flavum** Swartz=*Berk.* Ann. of Nat. Hyst. 1842, X. p. 380.

Hab. Ad truncos emortuos in sylvis prope *Paraguarí*, Maj. 1883 (sub num. 3914).

Obs. Pileus e cucullato explanatus semiorbicularis v. subdimidiato-expansus (2-5 cent. diam. — 1,5-3 cent. lat. ant.-post.), membranaceo-subcoriacellus (0,2 mllm. crass.), rigidulus (in sicco), laevissimus, glaberrimus, fulvo-luteus v. fusco-aurantiacus, mar-

gine integro, recto, vix attenuato, saepius fusco-rubescente, postice truncato-rotundatus, semper inferne stricte sed manifestissime marginatus, ac ibi pedicello dorsali, minuto quandoque perfecte evoluto, quandoque vix manifesto ac tuberculiformi, terete, glabro, pileo concolore ornatus; hymenium albescenti-fulvum v. pallescens planum, aculeis minutissimis (150-200 long. — 20-30 crass.), omnibus aequalibus, laxe confertis rigidulis, subsuccineis, e conoideo teretibus, glaberrimis, apice acutis v. subfimbriato-pallescentibus vestitum, usque ad marginem productum ac fertile.

Species pulchella et distinctissima aculeis abrupte ex hymenio plano exsurgentibus; stipes saepius definite manifestus subdorsalis, ac inferne semper stricte marginatus.

65. Hydnum *(Pleurotus?)* guaraniticum Speg. (n. sp.)

Diag. Pileus dimidiato-expansus (3-4 cent. diam. — 1,5-2,5 cent. lat. ant.-post.), coriaceo-membranaceus (0,4-0,5 mllm. crass.), flexilis sed non flaccidus, applanatus, margine recto, acuto, integerrimo, postice truncato-subreniformis, ibique vix, sed in dorso, stipitatus v. tuberculato-adnatus, minute adpresseque velutinus (fere tantum tactu), postice sordide pallescenti-carneus ac saepe obsolete concentrice zonatus v. undulatus, marginem versus fulvescenti-albescens v. alutaceus, intus concolor, fibroso-flocculosus, compactiusculus; hymenium albidum, aculeis confertiusculis, ex albido griseo-carneis, subceraceo-tenacellis, conico-teretibus, albis, pruinula carnea conspersis, longiusculis (0,5–0,7 mllm. long. — 0,15 crass.), apice obtusiuscule acutatis, marginem versus gradatim abbreviatis, ac zona sterili latiuscula (1 mllm. lat.) circumscriptis donatum, postice sub stipite semper ac manifestissime marginatum.

Hab. In sylvis ad truncos foliis putrescentibus atque humo obovolutos prope *Paraguarí,* Jun. 1883 (sub num. 3908).

Obs. Stipes quandoque vix evolutus ac tuberculiformis, quandoque majusculus (1 cent. long. — 6-8 mllm. crass.), subcompressus, horizontalis v. incurvato-verticalis, subdorsalis, inferne semper marginatus, e suberoso coriacellus, extus pallide carneo-fuscus, minutissime pruinuloso-velutinus.

66. Grandinia dubiosa Speg. (n. sp.)

Diag. Effusa, tenuissima, mucedinea, vix perspicua (in sicco),

sordide subgrisea v. subalutacea; verrucae sparsae v. hinc inde laxe gregariae, globosae (150 diam.), candidae, tomentosulae, vertice saepius areola glabrata instructae, pilis simplicibus, teretibus, subclavulatis, apice obtusis et asperulis (50-55 × 3), primo hyalinis, dein pallide fulvescentibus.

Hab. Ad ramos dejectos decorticatosque putrescentes in sylvis prope *Guarapí*, Nov. 1881 (sub num. 3421).

Obs. Species sterilis valde dubiosa; an *Soleniae* species inevoluta?

THELEPHOREAE FR.

67. THELEPHORA *(Mesopus)* AURANTIACA Pers. = *Fr.* Symb. p. 356 n. 12.

Hab. Ad truncos dejectos putrescentes in sylvis subvirgineis prope *Guarapí*, ann. 1880.

f. *typica* (sub num. 3357).

Obs. Pileus calyciformis (3-4 cent. diam. — 1,5-2 cent. alt.), membranaceus, integer v. saepe 1 v. ∞ fissus ad basin fere usque, superne dorso glaberrimus, obsolete radiatim fibrosus, gilvus v. fulvescenti-purpurascens, non v. vix subnitens, obsoletissime concentrice zonatus, inferne (hymenio) aurantiacus, laevissimus, margine tenuiore non v. vix zona sterile notato, undulato-repando, parce fimbriato-soluto; stipes brevis (0,5-1 cent. long. — 1 mllm. crass.), rigidulus, albescenti-carneus, subfarinosulus, basi dilatato-adfixus.

f. *intermedia* (sub num. 3355).

Obs. Pileus subparvulus, calyciformis (2-2,5 cent. diam. — 1,5 cent. alt.), tenui-membranaceus, superne minutissime radiatim fibrosus, non v. vix hinc inde sparse subvelutinus, subsericeonitens, fulvescens v. e fulvo dilutissime purpurascens; inferne sordide pallideque subflavescens, opacus, saepe laxissime minutissime ruguloso-reticulatus, margine latiuscule sterile, subpellucido, integro v. leniter undulato-repando, plus minusve dense fimbriato-soluto; stipes rectus, teres (0,5-1 cent. long. — 1 mllm. crass.), hymenio concolor, subfarinosus, basi fibrose radiatim expansus, ac fere scutato-adnatus, ambitu indeterminatus.

f. *craterelloides* (sub num. 3356).

Obs. Pileus calyciformis, majusculus (3-5 cent. diam. — 3-4 cent. alt.), integer, superne laevissimo, glaberrimo, fulvescenti-fu-

scus, azonus vix v. non nitens, inferne sordide ex albo v. flavo carneus, dense et plus minusve manifeste reticulato-venulosus, fere ut reticulum Merulii cujusdam, margine saepe latissime (3-5 mllm.) sterili, dense undulato-crenulato, integro v. vix denticulato-fimbriato; stipes curtus, crassiusculus, (0,5 cent. long. — 1,5 mllm. crass.), sordide albescens, farinosulus, basi late dilatato-adfixus.

68. THELEPHORA *(Pleurotus)* VENUSTULA Speg. (n. sp.)

Diag. Alba (in vivo); pilei membranacei, obovato-v. spathulato-elongati, antice rotundati, postice attenuato-cuneati (2-2,5 cent. long. — 1 cent. diam.), saepius plures lateraliter confluentes, applanati, verticales, superne (dorso) glaberrimi, laevissimi, non v. vix flabellatim fibrosuli pallide carneo-fulvescentes ac subpellucidi (in sicco), non v. vix obsoletissime concentrice zonati, margine tenuissimo, repandulo-sublobato, plus minusve lacero-fisso, inferne (hymenio) albi, glaberrimi, flabellatim minute ac dense rimosuli; stipites breves (4-5 mllm. long. — 0,8-1 mllm. crass.), farinosulo-velutini, sordide ex albo subfulvelli, rigiduli, teretes, basi parce dilatato-adfixi.

Hab. Ad ramos dejectos putrescentes in sylva subvirginea *Caáguazú*, Jan. 1882 (sub num. 3354).

69. CRATERELLUS *(Merisma)* SPARASSOIDES Speg. (n. sp.)

Diag. Dense fasciculato-coespitosus; pilei e basi longe attenuato-cuneata flabellato-spathulati (4-5 cent. long. — 3-4 cent. lat.), erecti, membranaceo-lenti, subrigiduli, glabri (sub lente valida laxe minute adpresseque araneoso-puberuli), albi, margine subfuscescente (in sicco; an semper?), saepeque zonis 1 v. 2 concentricis ab acie remotis notato, recto, acuto, plicato-undulato, irregulariter laxe subfimbriato-fisso; hymenium zona marginali sterili, latissima (1 cent. lat.) saepe fuscescente ac pruinulosa antice limitatum, postice in stipite decurrens, album, glabrum, e rugis gracilibus, acutiusculis, longitudinalibus strictis, densiusculis, vix hic inde e denticulis lateralibus reticulato-conjunctis, saepe interruptis compositum.

Hab. Ad folia nec non ramenta lignea putrescentia in sylvis prope *Guarapí*, ann. 1880 (sub num. 3352).

Obs. Rugae hymenii 0,15-0,25 mllm. crass., interstitia 0,20-0,40 mllm. lat., stipes e nodulo lento-carnoso, elongato-difformi,

fasciculato-exsurgens; pilei saepe confluentes, margine plus minusve lobato-v. fisso-laciniati, saepe fere pluries proligeri.

70. STEREUM *(Mesopus)* GOLIAS Sp. (n. sp.)

Diag. Pilei infundibulares, maximi (20 cent. — 10-14 cent. alt.), crassiuscule submembranacei, coriacelli, rigiduli (in sicco), superne radiatim laxe majusculeque rugoso-cristati, cristis membranaceis, irregularibus, integris v. erosis, interruptis, plus minusve evolutis (0,5-5 mllm. lat.), hinc inde inter cristas grosse laxeque (praecipue ad centrum) tomento sordide albo-flavescente, floccoso-substuppeo donati, ceterum (praecipue ad periphaeriam) glabri, pallide rufescentes v. fulvescente-gilvi (in sicco), margine repando, lobato-crenato, plus minusve lacero fisso, et saepe cum illo pilei contigui confluente; hymenium sordide pallideque fulvescenti-v. rufescenti-carneum, leniter irregulariterque radiatim subplicatulo-undulato, saepius pulvere griseo v. subcarneo adspersum; stipes brevissimus, crassus (1-2 cent. long. — 1-1,5 cent. crass.) subturbinatus, glaber v. rufescenti-velutinus, basi late truncatus, matrici tenacissime adnatu.

Hab. Ad truncos arborum in sylvis virgineis prope *Yaguaron*, Jan. 1879 (sub num. 3388).

71. STEREUM *(Mesopus)* HYLOCRATER Speg. (n. sp.)

Diag. Pileus cyathoideo-infundibularis (7 cent. diam. — 5 cent. alt.), coriaceo-membranaceus, rigidulus, superne concentrice subobsolete zonatus, radiatim rugosus, interstitiis rugarum praecipue ad confluentiam zonarum saepius tomento majusculo, flocculoso, albo-subgriseo vestitus, ceterum glaber, ligneo-pallescens, margine integro v. repando-subcrenato ac plus minusve dense tomentoso; hymenium albo-carneum, pulvere detersili alba adspersum, leniter flabellatim undulatum; stipes teres hymenio concolor v. vix fuscescens, glaber v. irregulariter griseo-velutinus (1-1,5 cent. long. — 3-4 mllm. crass.)

Hab. Ad ligna decorticata putrescentia in sylva subvirginea *Caáguazú* vocata, ann. 1880 (sub num. 3358).

Obs. Species certe a *Stereo cyathiforme* Fr. longe recedens, nec comparanda; an tantum varietas v. forma juvenilis praecedentis?

72. STEREUM *(Pleurotus)* DAMAECORNE Lnk. = *Fr.* Epicr. Syst. Myc. p. 546.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Guarapí*, ann. 1880 (sub num. 3350).

Obs. Ferrugineum v. ochraceum, glabrum, superne laeve v. squarrulosum, inferne minute denseque setulosum; setulis obscure ochraceis, lente valida tantum perspicuis.

73. STEREUM *(Apus)* MYTILINUM Fr. = Epicr. Syst. Myc. p. 548 n. 19.

Hab. Ad truncos emortuos putrescentes arborum in sylvis prope *Paraguarí*, Febr. et Maj. 1882-1883 (sub num. 3390-3915).

Obs. Pilei saepius seriati, gregarii, liberi v. confluentes, quandoque orbiculares, quandoque conchato-dimidiati, magnitudine ludentes (1,5-5 cent. diam.), membranaceo-coriacei, rigiduli, excentrice v. centro umbonato-sessiles (saepe breviter subpedicellati), superne (dorso) sordide fulvescenti-grisei, tomentosulo-velutini, leniter concentrice sulcati, sulcis paucis, strictis, glabris, castaneis, subnitentibus, margine acuto, integro, recto, non v. strictissime castaneo-glabrato; inferne (hymenio) sordide carnei v. carneo-lividi, glaberrimi, non v. obsoletissime concentrice undulati. Specimina guaranitica a descriptione Friesiana nonnihil recedunt et ne sistant speciem alteram dubito.

74. STEREUM *(Apus)* ELEGANTISSIMUM Speg. (n. sp.)

Diag. Pilei gregarii, horizontaliter seriati saepius lateraliter confluentes, nec non superposito-imbricati subconchati, dimidiato-expansi, parvuli (2 cent. diam.—1-1,5 cent. lat. ant.-post.), postice cuneati v. truncato-adnati, non v. vix effusi, margine recto v. incurvulo, acuto, integro v. parce subcrenato-repando, tenuiuscule membranacei, flaccidi sed tenacelli, superne dense concentrice sulcato-striati, e gilvo-castanei, sulcis obscurioribus, glabri sed adpressissime sericeo-fibrosi, modice nitentes; hymenium planum v. concavum, concentrice undulatum e fulvo v. subcarneo-umbrinum, sulcis subobscurioribus, margine subpallidiore, dense minutissimeque setulosum, setulis e conico teretibus, continuis (50-70 × 10-15), ochraceis, laevibus.

Hab. Ad palos nec non truncos decorticatos putrescentes, prope *Guarapí*, 6 Sept. 1882 (sub num. 3916).

Obs. Species pulchella, vere elegantissima, *Stereo tabacino* Mntgn. peraffinis, sed satis, ut videtur, distincta.

75. STEREUM *(Resupinatum)* PARAGUARIENSE Speg. (n. sp.)

Diag. Pilei late effusi (5-10 cent. diam.), ambitu plus minusve

reflexi, laxe imbricati v. lateraliter seriatim confluentes, crassiusculi (2–5 mllm. crass.), intus laxe floccoso-fibrosi, testacei, coriacei, flaccidi, flexibillimi, dorso grosse concentrice rugoso sulcati, tactu mollissimi (basin sterilem Lycoperdi cujusdam fibroso-stipatam perfecte aemulantes), glabri, opaci v. vix subsericeo-nitentes, pallide testacei, margine crasso, obtuso, concolore, repandulo; hymenium sordide et obscure purpureo-violaceum, imperspicue velutinum, non v. obsoletissime concentrice undulatum, grosse irregularissimeque (praecipue ad periphaeriam) longitudinaliter scruposo-rugosum, rugis antice acutis ac crispatis, margine vix pallidiore.

Hab. Ad ligna cariosa putrescentia in sylva *Mbatobí* prope *Paraguarí*, Jul. 1883 (sub num. 3896).

76. STEREUM *(Resupinatum)* ? MICRASPIS Speg. (n. sp.)

Diag. Pilei peltati (1-2 cent. diam.), applanati, solitarii v. gregarii ac confluentes, coriacelli (0,5-1 mllm. crass.), rigidi, matrici sublaxe adnati, ambitu non v. vix liberi, sordide obscureque ferruginei v. umbrini, primo pulvere tenuissimo subdetersili griseo adspersi, dein saepe nudi, centro leniter umbilicati, concentrice undulati, margine obtusulo, concolore, rotundato, integro, regulari.

Hab. Ad cortices truncorum putrescentium in sylvis prope *Carapeguá*, 25 Jul. 1883 (sub num. 3902).

Obs. Species nonnihil dubiosa; an status conidicus v. inevolutus *Nummulariae* cujusdam?

77. CORTICIUM *(Hymantia)* LACTEUM Fr. = Epicr. Syst. Myc. p. 560 n. 18

Hab. Ad ramulos dejectos in sylvaticis prope *Guarapí* (sub num. 2870).

78. CORTICIUM *(Hypochnus)* MICHELIANUM (Cald.) Fr. = Hym. Eur. p. 660 n. 68.

Hab. Ad ramulos languentes v. emortuos *Citri Aurantii* prope *Guarapí*, 1879 (sub num. 3429).

79. CORTICIUM *(Hypochnus)* RUBROCINCTUS Ehrenb. = *Fr.* Epicr. Syst. Myc. p. 569 n. 2.

Hab. Ad cortices truncorum putrescentium in sylvis subvirgineis prope *Guarapí*, per ann. 1881-1883 (sub num. 3507-3877).

80. **Cyphella ? stictoidea** Speg. (n. sp.)

Diag. Cupulae erumpenti-superficiales, laxe gregariae, inordinatae, udae hemisphaericae (1-1,3 mllm. diam.), siccae irregulariter contractulae, tenacellae, rigidulae, extus albae, parcissime pruinulosae, intus albo-ceraceae, glabrae, margine acuto, repandulo, integro; basidia (an asci immaturi ?) elongato-clavata (30-35×5-8), grosse guttulata, hyalina; sporae non visae.

Hab. Ad vaginas culmorum emortuorum bambusaceae spinosae cujusdam in sylva subvirginea *Caá-guazú*, 17 Jan. 1882 (sub num. 3506).

Obs. Species dubiosa ob genitalia imperfecta et habitum pezizoideum; an *Stictis* Pers. v. *Stegia* Fr. immatura?

81. **Cyphella paraguayensis** Speg. (n. sp.)

Diag. Cupulae pusillae, elongato-subellipticae (0,5-1 mllm. long. —0,3-0,5 mllm. lat.), innato-superficiales, laxe gregariae, inordinatae, in sicco parce contractulae, extus sordide albo-fuscae, tunica tenuissima subcrustacea vestitae, margine integro, laxe minutissimeque (oculo nudo imperspicue) ciliolato, intus pallidae, subceraceae, glabrae; pili marginales pusilli, obclavati (45-50×6-7), basi brevissime cuneati ac truncato-innati, apice leniter attenuati, subteretes, abrupte in disculum parvulum, 10-12 laciniato-fissum expansi; basidia oblongo-clavata (20-25×5), laevia, granulosa, hyalina; sterigmata et sporae non visa.

Hab. Ad hypophyllum foliorum dejectorum putrescentium *Blechni occidentalis* Linn. in *Pastoréo de Caá-guazú*, Jan. 1882 (sub num. 3495).

Obs. Species pulchella, pilis anomalis mox distinguenda; genitalia immatura, ergo dubia; an pezizacea (*Pezicula* Tul.) immatura?

82. **Cyphella albo-violascens** (A. S.) Karst. = *Speg.* Fung. Arg. pug. III, p. 10.

Hab. Ad folia sternata putrescentia in collinis *Cerro Hu* vocatis prope *Paraguarí*, Dec. 1881 (sub num. 3435).

Obs. Specimina immatura densiuscule gregaria, parvula, *Hyalopezizam ciliarem* (Schrad.) Fuckl. simulantia; cupulae pili typici!

CLAVARIEAE FR.

83. CLAVARIA *(Ramaria)* GUARAPIENSIS Speg. (n. sp.)

Diag. In vivo *alba*, in sicco *cinerascens*, glabra, laevissima, vix inferne, ob granulos arenae epidermide inclusos, sparse verruculosa, intus farcta, alba; stipes e mycelio albo, dense fibroso-floccoso, subgossypino frustula ac humum late arcteque adnato-obvolvente oriundus, saepius solitarius, fere a basi 3-4-partitus, ramis primariis longiusculis ac crassiusculis (2 cent. long — 3 mllm. crass.), apice 4-12 partitis; ramis secundariis longiusculis, mediocribus (1-1,5 cent. long.—1,5-2 mllm. crass.), erectiusculis, apice 2-partitis; ramis tertiariis, saepius simplicibus, rarius medio 2-partitis, longiusculis, ac pro ratione crassiusculis (2 cent. long.—1 mllm. crass.), rectis, teretibus vertice integris v. saepissime breviter bilobis, laciniis divaricatis (1-1,5 mllm. long.—0,8 mllm. crass.), apicibus abrupte rotundato-acutatis, minutissime mucronulatis.

Hab. In sylvis ad folia ac ramenta dejecta putrescentia prope *Guarapi*, ann. 1880 (sub num. 3351).

Obs. In colletione Balansiana sub num. 2807 invenitur *Clavariae* species, notis perplurimis cum hac conveniens, sed pallescens, irregularis, rugosa, fragilis; an species altera ?. Specimina nimis manca.

84. CLAVARIA *(Ramaria)* CLADONIA Speg. (n. sp.)

Diag. In vivo *alba*, in sicco *albescenti-grisea*, glabra, laevissima; stipes fere nullus e nodulo radicali floccoso-fibroso albo abrupte exsurgens, mox dense ramoso-partitus, ramis primariis (3 cent. long.—1 mllm. crass.) subsimplicibus, rectis v. lenissime flexuosis, ad quartum superum tantum parce ramosis; ramis ramulisque apice dense longiusculeque laciniato divisis; laciniis longiusculis, tenuibus (2-3 mllm. long.—0,3-0,4 mllm. crass.), teretibus, simplicibus v. subdichotomis, flexuoso-divaricatulis, apice fuscescentibus.

Hab. Ad terram in sylvis prope *Guarapi*, Mart. 1880 (sub num. 3353).

Obs. Species pulchella, habitum *Cladoniae rangiferinae* varietatis cujusdam valde aemulans, ac facile in vivo, primo obtutu, pro illa sumenda! Natura tamen fungina, nec lichenina.

85. CLAVARIA *(Ramaria)* FURCELLATA Fr.=Epicr. Syst. Myc. p. 576.
Hab. Ad terram humosam v. ad ligna mucida putrescentia in sylvis prope *Guarapí*, Mart. 1880 (sub num. 3353).
Obs. Rufescenti-ferruginea, pulverulento-velutina, habitu arborem pygmeam elegantissime aemulans; stipes longiusculus, plus minusve gracilis (1-1,5 cent. long.—1,5-3 mllm. crass.), pallescens, subglaber e tuberculo noduloso-flocculoso matrice arcte obvolventi-adnato oriundus, apice abrupte 6-10 ramosus; ramis primariis simplicibus, rectiusculis non v. vix pruinulosis, apice dense pluries subdichotomeque intricato-ramuligeris; ramulis obscure coloratis velutinis, ultimis tenuibus, flexuosulis, denticulatis, acutis.

86. CLAVARIA *(Ramaria)*? SPARASSOIDES Speg. (n. sp.)
Diag. Albo-fulvescens (in sicco), glabra, stipes e nodulo minuto tuberculiformi compacto oriundus, breviusculus, subturbinato-compressus (5 mllm. long.—3 mllm. lat.), apice 4-9-ramosus; ramis basi foliaceo-alatis, sursum late spathulato-expansis (2 cent. long.—1 cent. lat.), submembranaceis, undulatoplicatulis, apice inciso-laciniatis, laciniis erectis, planis, strictiusculis, vertice integro v. rarius eroso-denticulato.
Hab. Ad ligna mucida in sylvis prope *Guarapí*, ann. 1880 (sub num. 3353).
Obs. Species genus *Sparassis* Fr. notis perplurimis accedens, habitu etiam *Tremellae* foliaceae cujusdam, sed natura ut videtur (specimina non plane perfecta!) vere clavariarum, pulcherrima ac distinctissima, iterum tamen inquirenda.

87. CLAVARIA *(Ramaria)*? ADUSTIPES Speg. (n. sp.)
Diag. Pusilla, tenuis, rigidula, laxe irregulariterque ramosa, muscoides, cinerascens, glabra; stipites solitarii v. fasciculato-connati, erecti, fusco-nigricantes, teretes, plus minusve elongati (0,4-1 cent. long—0,3-0,4 mllm. crass.), apice et lateraliter laxe ramosis; rami erecti v. arcuato-adscendentes, sparsi, non v. parce divaricati, simplices v. vix 1-2 ramosi, elongati (0,5-1 cent. long.), gracillimi, apice longiuscule attenuato-acutati, integri, saepe flexuosi v. subcirrhosi, griseo-cinerei.
Hab. Ad truncos emortuos inter muscos in sylvis prope *Guarapí*, 28 Mart. 1880 (sub num. 2808).

Obs. Species a genere *Clavaria* Fr. nonnihil recedens ob rigiditatem, ac ut videtur ad *Pterulam* Fr. vergens!

88. CLAVARIA *(Holocoryne)* GORDIUS Speg. (n. sp).

Diag. Laxe gregaria, simplicissima, filiformis, exilis (1-1,5 cent. long.—0,08 mllm, crass.) sordide ceraceo-alba (in sicco), erecta, recta (in sicco flexuoso-contractula), glabra, apice acutissime attenuata, basi abrupte truncato-innata, teres; basidia clavulata, minuta (15-20×5-7); sporae hyalinae, ellipticae (5-7×2,5-3).

Hab. Ad folia dejecta putrescentia plantae cujusdam in sylvis prope *Guarapí*, Maj. 1880 (sub num. 3755).

Obs. An huc *Clavaria subulata* B. & C. ducenda?

89 CALOCERA CORNEA Batsch.=*Speg.* Fung. Arg. pug. IV, p. 18.

Hab. Ad truncos ac ramos corticatos putrescentes in sylva subvirginea *Caá-guazú*, Febr. 1882 (sub num. 3415).

Obs. Specimina hujus regionis a typo nonnihil recedunt, et varietatem gracilem sistere videntur.

Laxe gregaria, elongatula, gracilis (4-5 mllm. long.—0,3-0,4 mllm. crass.), glabra, laevis, aurantiaca, tenacella, rigidula, simplex v. 1-3 breviter alternateque ramosa, apicibus attenuato-acutatis.

AURICULARINEAE FR.

90. HIRNEOLA DACRYMYCETOSPORA Speg. (n. sp.)

Diag. Hemisphaerico-cupulata (5-10 mllm. diam.), pezizaeformis, subparva, sessilis v. minute substipitata, margine integro, acuto, in sicco involuto, membranaceo-carnosula, tenax, rigida, extus rubro-v. rufescenti-testacea, minute denseque granuloso-pruinulosa, intus atra non v. vix glaucescens, glaberrima; contextus dense hyphoideo-prosenchymaticus; hyphae dense ramoso-anastomosantes, fertiles apice clavulato-inflatae; sporae elliptico–subnaviculares, inferne e latere acutato-apiculatae (12-13×6), 4-grosse guttulatae, v. 3-pseudoseptatae, hyalinae.

Hab. Ad corticem truncorum *Citri aurantii* prope *Guarapí*, Jul. 1881 (sub num. 3404).

Obs. Species pulchra, *Hirneola polytricha* Fr., ut videtur, valde

affinis, habitu *Pezizam hematochloram* Speg. (in eodem substrato vigentem) aemulans. An ejusdem status metageneticus? Sporae illis *Dacrymycetum* simillimae!

GASTEROMYCETEAE (Fr.) D.By.

LYCOPERDEAE (FR.) D.BY.

91. GEASTER *(Eugeaster)* SACCATUS Fr. = *Speg.* Fung. Arg. pug. IV. p. 97.

Hab. Ad monticulos seu nidos *Thermitum* vetustos in campestribus prope *Carapeguá*, 24 Julio 1883 (sub num. 3903).

Obs. Specimina guaranitica, ut videtur, sistunt varietatem minorem; peridia dense aggregata, mycelio late per terram excurrente, dense et strigose fibroso-tomentosulo albo insidentia v. semiimmersa: cortex crassiusculus subflaccidus, 8-10 laciniato-fissus, sed tantum ad medium usque, laciniis triangularibus, acutis, extus albis, intus fuscis; peridium interius tenui membranaceum, globosum (4-8 mllm. diam.), sessile, plumbeo-umbrinum, ore supero umbonato-acutato, indeterminato, penicillato-sericeo; gleba fibrosulo-gossypina, pulverulenta, brunneo-fuliginea; sporae globosae (3-4 diam.), papilloso-asperulae.

Specimina non perfecte evoluta et iterum inquirenda; an melius species nova?.

92. TULOSTOMA *(Schizostoma)* BERTEROANUM Lév. = *Speg.* l. c., p. 98.

Hab. In campis, praecipue arenosis, prope *Paraguarí*, ann. 1883 (sub num. 3920).

Obs. Specimina guaranitica vix a bonaërensibus ac patagonicis recedentia, ob peridium irregulariter minute laxeque furfuraceo-pruinulosum.

93. LYCOPERDON *(Globaria)* LILACINUM *(Mntgn. & Brk.)* Speg. = l. c. p. 103.

Hab. In campis cultis prope *Paraguarí*, Febr. 1883 (sub num. 3923).

Obs. Sporae globosae exappendiculatae, episporio laxe ac maju-

scule papilloso-muricato, obscure lilacinae (6-7 diam.); flocci exigui (3-4 crass.) simplices, longissimi, dilute fumoso-lilacini.

94. LYCOPERDON *(Globaria)* PSEUDO-LILACINUM Speg. (n. sp.)

Diag. Cortex externus absens, internus (seu peridium) crassiuscule papyraceus, rigidulus, fragilis e fusco griseus v. plumbeus, opacus; basis sterilis majuscula, obconica, parce rugoso–plicata, intus cellulosa, fuscescenti-plumbea cum glebae capillitio continua; gleba mox cum peridii parte superiore frustulatim evanescens, pulverulento-flocculosa, plumbeo-v. lilacino-glauca; flocci breviusculi, dense ramosi, subgraciles (2-3 crass.), laevissimi, continui, sub lente dilute fumosi; sporae globosae, exappendiculatae, minute denseque aspero-papillosae (4-5 diam.), sub lente glauco-fumosae.

Hab. In campis cultis prope *Paraguarí*, Febr. 1883 (sub num. 3923).

Obs. Species pulcherrima, primo intuitu pro *L. lilacino (Mntg. & Brk.)* Speg. facillime commutanda, mox tamen glebae colore, peridii crassitudine ac fragilitate dignoscenda. Specimina, quae mihi adsunt, vere incompleta, et fere tantum peridiorum basi vetusta; peridium, videtur, primo turbinato-globosum, laeve, mycelio vix, fere ullo, floccoso-fibrosulo, albo-fuscescente radicatum.

95. LYCOPERDON (*Pseudobovista*) PSEUDOGEMMATUM Speg. (n. sp.)

Diag. Peridia alba, turbinato-clavata (6 cent. long.), superne subglobosa (3 cent. diam.), inferne longe attenuato-stipitata, stipite subterete (2,5 cent. long. — 0,5-1 cent. crass.) apice abrupte expansum, basi modice acutato-rotundato, non plicato nec rugoso, parce fibrosulo-myceliifero; cortex exterior mox evanescens, albus, tenuis; cortex interior tenui papyraceo-membranaceus, tenacellus, laxe minuteque granuloso-verruculosus e frustulis corticis exterioris adhaerentibus, albus v. pallescens (in sicco), tenacellus, persistens, per aetatem vertice irregulariter dehiscens; basis sterilis stipitem tantum occupans, floccoso-stipata, pallide fusco-virescens v. subolivascens cum gleba continua; gleba floccoso-pulverulenta, virescenti-olivacea; sporae globosae, parvulae (2-2,5 diam.), sub lente chlorinae, laxe ver-

ruculoso-asperae, cauda hyalina, eorum diametrum aequante v. vix superante, recta v. parce flexuosa, gracili donatae.

Hab. Ad terram sabulosam in sylvis prope *Guarapí*, Aug. 1882 (sub num. 3921).

Obs. Species *Lycoperdone pyriforme* Schaeffer nec non *L. gemmato* Batsch. simillima, sed glebae colore, sporarumque magnitudine satis distincta.

96. LYCOPERDON (*Pseudobovista*) SCLERODERMA Speg. (n. sp.)

Diag. Peridia alba, turbinato-globosa (4,5-5 cent. alt.—4 cent. diam.), superne late rotundato-hemisphaerica per aetatem irregulariter dehiscentia, inferne subcoarctata ac breviter obconico-producta, parceque plicato-rugosa, modice albo-fibroso radicata; cortex exterior interiori arcte adnatus (specimina subimmatura !) superne grosse obscureque polygone diffractus, albus, glaber, laevis; cortex interior cum externo confluens, crassus, fragilis (in sicco) concolor; basis sterilis peridii tertium inferum occupans, floccoso-stipata, compactiuscula, virescenti-alba, gleba adnata; gleba floccoso-pulveracea, pallide sordideque violascenti-purpurea; sporae globosae (3-4 diam.) laeves, sub lente violascentes, grosse 1-guttulatae, cauda facillime decidua, minuta, dimidium eorum diametrum vix aequante, subhyalina ornatae.

Hab. In campis apricis inter gramina ad solum subargillaceum prope *Paraguarí*, Mart. 1883 (sub num. 3922).

HYPODERMEAE D.By.

USTILAGINEAE TUL.

97.? USTILAGOPSIS COMPACTIUSCULA Speg. (n. sp.)

Diag. Ovaria infecta basi intacta, apice grosse tumefacta, globulum glumis exertum compactum, spiculae diametrum pluries superans (1-1,5 mllm. diam.) sordide roseo-subceraceum, sub jove pluvio gelatinoso-turgescens ac deliquescens gerentia; sporae ellipticae, utrinque acutato-obtusatae, rectae v. subinaequilaterales, hyalinae, eguttulatae (6-12×2,5-3,5).

Hab. Ad ovaria immatura *Vilfae* species cujusdam in apricis prope *Guarapí*, Apr. 1883 (sub num. 2754).

98. USTILAGO BALANSAE Speg. (n. sp.)

Diag. Sori paniculas totas implectentes, easque in fibris crassiusculis, fasciculatis, fuscis, pulvere atro-brunneo immixtis solventes; sporae globosae (7-8 diam.), atro-olivaceae, subopacae, non v. 1 grosse guttulatae, episporio densissime minutissimeque granuloso-asperulo.

Hab. Ad paniculas nondum evolutas *Paniceae* cujusdam in campis prope *Guarapí*, Jan. 1882 (sub num. 3534).

99. USTILAGO GUARANITICA Speg. (n. sp.)

Diag. Sori atri spiculas totas implectentes sed eas vix deformantes, parum manifesti, rachide persistente percursi, epidermide tenuissima, pallide fusca, pellucida diu tecti; sporae primo ellipticae v. globosae, dein e mutua pressione angulosae (10-12 ×9-10), laevissimae, subopace fuligineae.

Hab. Ad paniculas evolutas *Andropogonis condensati* in pratis convallis *Y-cán* vocatae inter *Paraguarí* et *Valenzuela*, Maj. 1883 (sub num. 3739).

100. USTILAGO? LEONINA Speg. (n. sp.)

Diag. Sori totas paniculas ambientes, easque in massam pulveraceam fibris densis gracilibusque parallele densiuscule percursam transformantes, pallide fulvi; sporae globosae, majusculae (12-20 diam.), liberae (an primo glomerulatae?), subhyalinae v. pallidissime fulvescentes, laeves v. episporio minutissime subimperspicueque ruguloso, non v. 1 grosse guttulatae, inferne saepe verrucula minuta ornatae.

Hab. Ad paniculas *Graminaceae* elatioris cujusdam in *Pastoréo de Caá-guazú*, Jan. 1882 (sub num. 3535).

Obs. Species nonnihil dubiosa, et evolutionis studium peracto, facile ad genus *Techaphora* Fngrh. adscribenda.

101. USTILAGO? LYCOPERDOSPORA Speg. (n. sp.)

Diag. Sori fere totas paniculas ambientes, sed eas non v. vix deformantes; spiculae infectae parum turgescentes, sordide obscureque olivascentes, compactae, duriusculae, subpruinu-

losae; sporae globosae, subparvulae (4-6 diam.), viridi-olivaceae, pellucidae, grosse 1-guttulatae, episporio dense majusculeque granuloso-verrucoso.

Hab. Ad paniculas submaturas *Vilfae* species cujusdam in sylva subvirginea *Caá-guazú*, Jan. 1882 (sub num. 3511).

Obs. Species perquam dubiosa; sori compactiusculi sed subtomentosuli; adsunt hyphae longiusculae, ramoso-intricatae, subhyalinae (2,5-3 crass.), densiuscule ac minute verruculosae (sterigmata?). An potius fungillus imperfectus?

102. Ustilago paraguayensis Speg. (n. sp.)

Diag. Sori spiculas totas implectentes ac turgentes, easque tamen parum v. vix deformantes, primo glumis inclusis dein inter eas lacero-erumpentes, atri, dense fibroso-pulverulenti; sporae globosae, minutae (5-7 diam.), fusco-fuligineae v. fuligineo-subatrae, eguttulatae, episporio crassiusculo, laxe minutissimeque granuloso (an melius ruguloso-asperuló?).

Hab. Ad paniculas foemineas *Graminaceae* monoicae elatioris (an bambusaceae?) cujusdam in montuosis *Cordillera de Peribebuy* vocatis, 2 Apr. 1883 (sub num. 3776).

103. Ustilago paraguariensis Speg. (n. sp.)

Diag. Sori apicem culmorum folia vaginasque nondum evoluta infestantes, eaque parum turgentes et nigrificantes, primo epidermide tenuissima plumbea tecti, dein lacero-erumpentes ac pulverulenti, atri; sporae globosae, mediocres (7-9 diam.), dense granuloso-farctae (an leniter areolato–alveolatae?), olivaceo-fuligineae, minutissime laxissimeque granuloso-papillulatae.

Hab. Ad culmos juveniles *Cynodontis dactylon* in platea Collegii de *Paraguarí*, 5 Mart. 1883 (sub num. 3740).

104. Ustilago peribebuyensis Speg. (n. sp.)

Diag. Sori basin pedunculorum spicularum infestantes, eamque saepe majuscule turgescentes, primo compacti, epidermide tenui plumbea v. albo-pruinulosa tecti, dein nudi, modice pulverulenti, atri v. fusco-atri; sporae lenticulares v. globoso-compressae, margine late obtuseque rotundatae (12-13×8-9), intense ac subopace fuligineae, laeves, dense nubiloso-farctae.

Hab. Ad basin pedunculorum spicularum *Cyperi* species cujusdam

in montuosis *Sierra de Peribebuy* vocatis, 25 Mart. 1883 (sub num. 3775).

105. USTILAGO SETARIAE Niessl.?

Hab. Ad spiculas *Setariae* species elatioris cujusdam in sylvaticis prope *Paraguarí*, Febr. 1883 (sub num. 3738).

Obs. Sori atri, spiculas singulas implectentes easque non v. vix turgentes v. deformantes, primo compactiusculi, dein apice dehiscentes ac pulverose dissilientes; sporae ellipticae v. e mutua pressione angulosae (7-10×6-7), pallide olivaceo-fuligineae, protoplasmate nubiloso-granuloso farctae, episporio minutissime denseque granuloso-papilloso.

Species quae sub hoc nomine in Fungis Arg. pug. I, n. 44 et in Decadibus Myc. Arg. n. 4 edita fuit, ab *Ustilagine setariae* Niessl longe abhorrens, ac *U. pamparum* Speg. vocanda.

UREDINEAE (Tul.) D.BY.

106. GYMNOSPORANGIUM? GUARANITICUM Speg. (n. sp.)

Diag. Receptacula dense gregaria, verrucas plus minusve evolutas (0,3-5 mllm. magn.), scruposas late ramulos ac folia ambientes efficentia, apice primo clausa dein irregulariter dehiscenti-perforata, sordide virescenti v. olivaceo-fusca, epidermide matricis v. stromate nigricante fungilli cujusdam tecta, intus irregulariter lacunoso-confluentia, pulpa viscoso-mucedinea aurantio-fulvescente v. pallide succinea, longe ac cirrhose per ostiolis protrudente farcta; teleutosporae muco fasciculatim immersae, et cum eo e receptaculis exiliientes, elliptico-elongatae v. elongato-biconicae (12-15 [rarius 20]×3-3,5), medio non constrictae, 1-pseudoseptatae, apice acutiuscule rotundatae, deorsum attenuato-truncatae, hyalinae, pedicello filiformi, praelongo (50-80×1), concolore v. vix ima basi fuscescente suffultae.

Hab. Ad ramulos nec non folia viva *Cupaniae* species cujusdam in sylvis prope *Guarapí*, Oct. 1882 (sub num. 3748).

107. PUCCINIA ARACHIDIS Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, parvulae, indeterminatae, fuscescentes; acervuli hypo-rarissime epiphylli, minuti (200-

350 diam.), plus minusve dense gregarii v. sparsi, hemisphaerico-prominuli, primo epidermide tenuissima velati, dein nudi, laxe granulosi, ferruginei; teleutosporae ellipticae v. obovatae (38-42×14-16), sursum obtuse rotundatae v. acutatae, ibique crassiuscule tunicatae, medio 1-septatae, parce constrictae, deorsum leniter attenuato-truncatae, fulvellae, episporio laevissimo, protoplasmate nubiloso; stipes longiusculus, gracilis (50-60×1-5), hyalinus.

Hab. Ad folia viva *Arachidis hypogeae* prope sylva subvirginea *Caá-guazú*, Jan. 1882 (sub num. 3449).

108. PUCCINIA ARECHAVALETAE Speg.=Fung. Arg. pug. IV, n. 57.

Hab. Ad folia viva *Cupaniae* species cujusdam in dumetis prope *Villa Rica*, Jan. 1882 (sub num. 3529).

Obs. In speciminibus guaraniticis teleutosporae fere omnes uromyceti-formes, puccinii-formes rarissimae, et tanden fungillus melius ad genus *Uromyces* Lév. adscribendus videtur; teleutosporae obovatae (18-22 diam.), apice saepius subtruncato-rotundatae, crasse tunicatae praecipue ad verticem, obscure cinnamomeae; stipite exili, praelongo (50-65×2,5-4), hyalino.

109. PUCCINIA AUSTRALIS Speg.=Fung. Arg. pug. II, n. 33.

Hab. Ad folia viva *Mikaniae cordifoliae* et *M. scandentis* in dumetis sylvae *Caá-guazú* et *S. Barbarae* prope *Villa Rica*, Jan. 1882 (sub num. 3484 et 3485).

110. PUCCINIA BALANSAE Speg. (n. sp.)

Diag. Maculae nullae v. epiphyllae, subparvae, indeterminatae, fuscescentes; acervuli hypophylli, minuti, compacti, in pulvinulos orbiculares (1-4 mllm. diam.) confluentes, prominuli, duriusculi, intense fuligineo-cinnamomei; teleutosporae elliptico-obovatae (24-26×12-14), antice rotundato-obtusatae, ibique episporio modice incrassato, medio 1-septatae, non v. vix constrictae, laevissimae, protoplasmate granuloso farctae, pallide fulvae; stipes longissimus, gracilis (120-150×1-2), hyalinus.

Hab. Ad folia viva *Echitis funiformis* in sylvis prope *Guarapí* ann. 1880 (sub num. 2743).

111. PUCCINIA? LORANTHI Speg. (n. sp.)

Diag. Maculae nullae; acervuli amphygeni, sparsi v. hinc inde laxe gregarii, pulviniformes (1-2 mllm. diam.), subcrenulati, compacti, sordide fusco-testacei; teleutosporae dense constipatae, subclavato-cylindricae, fere bacillares, apice obtuse rotundatae, postice truncatae (70-75×12-14), medio 1-septatae, non constrictae, episporio tenui ubique aequicrasso, laevi, protoplasmate granuloso-nubiloso, pallidissime fulvae v. hyalino-chlorinae; stipes brevissimus, crassus (20×10), hyalinus, facillime deciduus.

Hab. Ad folia *Loranthi* species cujusdam in sylvis prope *Paraguarí*, Maj. 1883 (sub num. 3891).

Obs. Species externa facie vere puccinioidea, forma tamen teleutosporarum anomala, ergo nonnihil dubia!

112. PUCCINIA MALVACEARUM Bert.=Speg. Fung. Arg. pug. I, n. 29—pug. IV, n. 63.

Hab. Ad folia viva *Anodae* species cujusdam in campis prope *Guarapí* et *Paraguarí* per ann. 1881-83 (sub num. 2742-3884).

113. PUCCINIA MAYDIS Béreng.=Speg. Fung. Arg. pug. I, n. 36.

Hab. Ad folia viva v. languida *Zeae maydis* in arvis prope *Guarapí*, Dec. 1882 (sub num. 3732).

114. PUCCINIA MEDUSA Speg. (n. sp).

Diag. Maculae amphygenae, epiphyllae, mediocres (2-2,5 mllm. diam.) centro arescenti-griseae, ambitu zona irregulari, fusca v. nigricante limitatae, hypophyllae indeterminatae, pallescentes; acervuli pulvinati (1-1,5 mllm. diam.), centro macularum insidentes, saepius hypophylli, compacti, duri, testacei; teleutosporae obscure fuligineo-cinnamomeae, elliptico-obovatae (27-30×20), utrinque truncato-rotundatae v. depressae, episporio crasso, praecipue vertice loculi superi valide incrassato ac grosse subdenseque verrucoso-hirto, ceterum laeve v. vix ruguloso; stipes mediocris, crassiusculus (10×5), hyalinus, deorsum parum attenuatus, basi saepe lobulato-appendiculatus. Adsunt intermixtae uredosporae.

Hab. Ad folia viva *Pithecoctenii clematidei* in sylvis prope *Villa Rica*, Jan. 1882 (sub num. 3491).

115. Puccinia opulenta Speg.= Fung. Arg. pug. I, n. 36.

Hab. Ad folia *Jacquemontiae* species cujusdam in sylvis montanis *de la Cordillera de Peribebuy*, Apr. 1883 (sub num. 3786).

Obs. Maculae nullae; acervuli epiphylli, parvuli (0,5-1 mllm.), solitarii v. 2-5 aggregati, primo epidermide tenuissima velati, dein erumperti nudi, non v. vix pulverulenti, cinnamomeo-testacei. Teleutosporae cum descriptione citata plane conveniunt.

116. Puccinia Parodii Speg.= Fung. Arg. pug. III, n. 32.

Hab. Ad folia viva *Pilocarpi pinnatae* prope *Paraguarí*, Mart. 1881 (sub num 2723).

Obs. Specimina balansiana cum descriptione citata perfecte conveniunt, vix maculis epiphyllis profunde concavo-bullosis, et teleutoporis aparaphysatis recedunt.

117. Puccinia Parodii Speg.

var. minor.

Diag. Maculae epiphyllae, minutae (1-1,5 mllm.) vix fuscescentes sed parenchymate profunde impresso-bulloso; acervuli hypophylli, majusculi (1-3 mllm.), orbiculares, applanato-pulvinati, compactissimi, duri, fuligineo-cinnamomei, nudi; teleutosporae ellipticae v. obovatae (40 × 15-18), apice plus minusve attenuatae ac obtusatae, episporio crassiusculo, saepius pervio, medio 1-septatae, parce constrictae, laeves, fulvo-cinnamomeae; stipites longissimi, graciles (120-150 × 2-6), hyalini, apice dilute fulvescentes; paraphyses desunt.

Hab. Ad folia viva plantae cujusdam arborescentis in sylvis ad ripas fluminis *Pirayú*, Jul. 1880 (sub num. 2735).

118. Puccinia rugosa Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, amphygenae, indeterminatae, pallescentes; acervuli epiphylli, sparsi v. hinc inde 2-3 aggregati (0,5-1,5 mllm.), primo tecti dein erumpenti-nudi, pulverulento-compactiusculi, sordide cinnamomei; teleutosporae ellipticae v. obovatae (26–42 × 16-20), apice saepius late rotundatae, episporio ubique aequaliter crassiusculo, dense minuteque ruguloso, protoplasmate nubiloso-granuloso, vivide fulvo-cinnamomeae; stipes hyalinus, vix evolutus (5 × 5) v. fragillimus ac mox evanescens.

Hab. Ad folia viva *Compositae (Verbesinae?)* species cujusdam in sylvaticis prope *Paraguarí*, Dec. 1881 (sub num. 3433).

119. PUCCINIA TINCTORIA Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, amphygenae, indeterminatae, majusculae ac pallescentes; acervuli hypo-rarius epiphylli, minuti (200-500 diam.), plus minusve laxe sparsi v. gregarii, primo tecti, dein erumpentes, cinnamomei; teleutosporae ellipticae v. elliptico-subobovatae (40×25-28), utrinque eximie rotundatae, medio 1-septatae sed vix constrictae, episporio ubique subaequicrasso, minute laxeque verruculoso-asperulo, primo fulvidae, loculis grosse 1-guttulatis, dein subopace fuligineo-cinnamomeae; stipes mediocris (50×5), hyalinus v. vix apice fuscescens.

Hab. Ad folia viva *Eupatorii tinctorii* in sylva *Naranjo* vocata, in montuosis *Cordillera de Peribebuy*, Jul. 1883 (sub num. 3892).

120. UROMYCES CISNEROANUS Speg. (n. sp.)

Hab. Ad folia viva *Sapii aucuparii* in dumetis prope *Paraguarí*, Jul. 1880 (sub num. 3817).

Obs. Teleutosporae obovatae v. ellipticae (30-40×25-30), intense cinnamomeae, episporio vertice incrassato-mucroniformi pallidiore, ubique rugoso-verruculosae.

121. UROMYCES LANTANAE Speg. (n. sp.)

Diag. Maculae amphygenae, majusculae (3-6 mllm. diam.), fuscescenti-arescentes, determinatae orbiculares v. angulosae; acervuli hypophylli totam maculam occupantes, vix prominuli, cinnamomei; teleutosporae obovatae (20×15), antice acutato v. truncato-rotundatae, crassissime tunicatae, episporio laevi, intense melleo-fuligineae; stipes mediocris (35-42×4-6) pallide melleus.

Hab. Ad folia viva *Lantanae* species cujusdam in dumetis prope *Paraguarí*, Dec. 1881 (sub num. 3544).

Obs. In acervulis sporae pucciniiformes, sed rarissimae, adsunt intermixtae; aliae stipite ad tertium superum 1-septato et segmentum superum tandem loculus abortivus videtur: episporium per aetatem subcrustaceum evadit et apice saepe irregulariter rimoso-diffractum.

122. **Uromyces malvacearum** Speg.=Fung. Arg. pug. IV, n. 71.

Hab. Ad folia viva *Abutilonis* species cujusdam in pratis prope *Paraguarí*, Mart. 1881 (sub num. 2741).

Obs. Teleutosporae globoso-obovatae (16-20×14-18), fuligineae, apice saepius truncato-rotundatae, ibique episporio crassissimo saepeque pervio; stipes elongatus, apice incrassatus ac fuscescens, ceterum gradatim attenuatus (60-100×5-6), subhyalinus.

123. **Uromyces malvicola** Speg. (n. sp.)

Diag. Maculae nullae; acervuli hemisphaerico-pulvinati, minuti (180-300 diam.), epiphylli paucissimi sparsi, hypophylli numerosissimi, hinc inde in plagulas majusculas (1-2,5 mllm. diam.), laxe ac subconcentrice aggregati, nudi, compactiusculi, cinnamomei; teleutosporae globoso-obovatae (16-20×15-17), antice rotundatae v. subtruncato-rotundatae, episporio modice gradatimque incrassato, protoplasmate nubiloso-granuloso, pulchre cinnamomeae; stipes longus, pro ratione crassiusculus (70-80×5-10), saepius ad tertium superum fusoideo-v. phialoideo-incrassatus, hyalinus.

Hab. Ad folia viva *Abutilonis* species cujusdam in campis prope *Guarapí*, Jul. 1883 (sub num. 3885).

124. **Uromyces pervius** Speg. (n. sp.)

Diag. Maculae amphygenae, determinatae, arescenti-fragiles, griseae, primo minutae (2-3 mllm. diam.), dein confluentes saepeque fere totum folium occupantes; acervuli hemisphaerico-pulvinati, minuti (200-250 diam.), compactiusculi, cinnamomei, centro macularum concentrice et sublaxe insidentes, ac per aetatem cum parenchymate macularum secedentes, ac folium totum perforatum relinquentes; teleutosporae plus minusve intense cinnamomeae, e fronte orbiculari-obovatae (15-18×13), apice late truncatae, postice truncato-subattenuatae, episporio laevissimo, vertice praecipue valde incrassato ac saepius latiuscule perforato, grosse 1-guttulatae, e latere compressae strictae, latere altero concavo, altero convexo (in sicco) v. lenticulares (in vivo); stipes mediocris (25-30×3-4) teres v. vix deorsum gradatim attenuatus, hyalinus.

Hab. Ad folia viva *Cupaniae* species cujusdam in dumetis prope *Villa Rica*, Jan. 1882 (sub num. 3515).

125. Coleosporium guaraniticum Speg. (n. sp.)

Diag. Maculae nullae v. epiphyllae, indeterminatae, expallentes; sori hypophylli solitarii v. hinc inde irregulariter aggregati, orbiculares v. subelliptici, minuti (200-450 diam.), primo epidermide tecti, dein lacero-erumpentes, subpulverulenti, pallide fulvi v. albo-subaurantii; stylosporae ellipticae v. sphaeroideo-angulatae (20-25 × 13-15), hyalinae, protoplasmate granuloso, chlorino v. dilute melleo farctae, catenulatae, episporio subcrassiusculo, latere altero dense grosseque granuloso-verrucoso, altero laevi.

Hab. Ad folia viva *Ipomeae gossypioidis* in pratis uliginosis prope *Paraguarí*, Nov. 1881 (sub num. 3552).

Obs. Species pulchella, primo intuitu pro *Cystopi* specie quadam facillime sumenda; stylosporae tantum adsunt.

126. Coleosporium? pallidulum Speg. (n. sp.)

Diag. Maculae amphygenae, irregulares, angulosae, brunneae, subarescentes, magnitudine ludentes (1-5 mllm. diam.); sori hypophylli minuti, (100-150 diam.) pallide aurei v. albo-mellei, subhemisphaerici, in maculis dense aggregati, primo tecti dein erumpentes; stylosporae elongato-ellipticae (15-20 [rarius 25] × 9-15), e mutua pressione irregulares, saepius utrinque subtruncatae, medio 1-septatae, non v. vix constrictae, loculis saepe valde inaequalibus, hyalinae, nubiloso-farctae, episporio tenui, laevi, dense congestae (catenulatae?).

Hab. Ad folia viva *Malvaceae* species cujusdam in arvis prope *Guarapí*, Jul. 1883 (sub num. 3886).

Obs. Species sporis bilocularibus (an binis aegre secedentibus?) dubiosa, habitu externo *Aecidiolum* v. *Aecidium* parvulum mox in mente revocans.

127. Coleosporium? paraguayense Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, pallescentes, irregulares, indeterminatae, epiphyllae; sori hypophylli hinc inde plus minusve laxe gregarii, subminuti (250-350 diam.), pallide mellei v. albo-fulvi, prominuli, pulverulenti; stylosporae globosae v. subellipticae, e mutua pressione obtuse angulosae (15 diam.), episporio subtenui, ubique aequicrasso ac dense majusculeque verruculoso-ruguloso, subhyalino, protoplasmate oleoso-

nubiloso flavido, dense congestae, in prima aetate catenulatae.

Hab. Ad folia viva *Compositae (Verbesinae?)* cujusdam in sylvaticis prope *Guarapí*, Julio 1883 (sub num. 3799).

Obs. Habitus uredinis cujusdam; stylosporae etiam urediniformes sed prima aetate catenulatae.

128. Caeoma mbatobiense Speg. (n. sp.)

Diag. Maculae nullae; acervuli minutissimi (50-80 diam.), oculo nudo vix perspicui, hypophylli, sparsi v. saepius secus nervum primarium irregulariter et laxe aggregati, pallidissime fulvi, subpulverulenti; stylosporae globosae v. subhemisphaericae (in sicco), majusculae (25-28 diam.), episporio ubique crassissimo (3-5 crass.), laxe verrucoso-papilluloso donatae, protoplasmate nubiloso farctae, e hyalino perdilute fulvescentes.

Hab. Ad folia languentia *Pteridis?* species cujusdam in nemorosis prope *Mbatobí*, Jul. 1883 (sub num. 3866).

129. Caeoma superficiale Speg. (n. sp.)

Diag. Maculae nullae; acervuli minutissimi (50-60 diam.), oculo nudo non v. vix perspicui, densiuscule sparsi, pulvisculum pallide fulvescens simulantes, superficiales; stylosporae globosae v. ovatae (22-25×20-24), episporio tenui, laxissime verruculoso-asperulo donatae, hyalinae v. vix fulvescentes.

Hab. Ad folia viva *Blechni* species cujusdam in sylvis prope *Mbatobí*, Jul. 1883 (sub num. 3882).

130. Uredo Cisneroana Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, pallescentes; acervuli epiphylli, sparsi, subminuti (250-300 diam.), pallide fulvi v. aurei, epidermide diu velati, ac parum conspicui; stylosporae dense constipatae, elongato-clavatae (25-45×18-22), antice plus minusve acutatae v. obtusatae, deorsum validiuscule attenuatae, truncatae, episporio crassiusculo, laxe verruculoso-papilloso donatae, hyalino-fulvellae.

Hab. Ad folia viva *Sapii aucuparii* in dumetis prope *Guarapí*, Dec. 1881 (sub num. 3468).

Obs. Species forma acervulorum nec non stylosporarum fere sine dubio generi *Melampsora* Cast. adscribenda!

131. Uredo cristata Speg. (n. sp.)

Diag. Maculae vix manifestae, minutae (1–2 mllm. diam.), indeterminatae, pallescentes; acervuli amphygeni (saepius epiphylli), centro macularum insidentes, solitarii v. pauci laxe gregarii, punctiformes (300-350 diam.), compactiusculi, sordide pallideque ferruginei; stylosporae, obovato-lanceolatae, antice rotundatae, postice attenuato-truncatae (45-47 × 18-20), e latere compressiusculae, episporio margine cristam hyalinam, latiusculam, apice acutissime productam, denticulato-erosam, paulo supra basin exsurgentem efformante, laevi donatae, pallide fulvescentes.

Hab. Ad folia viva *Sapindaceae* species cujusdam prope *Villa Rica*, Jan. 1882 (sub num. 3474).

Obs. Species pulcherrima distinctissima, cum nulla alia comparanda, facile status stylosporicus cujusdam *Melampsorae*.

132. Uredo fici Cast. = *Speg.*, Fung. Arg. pug. II, n. 41.

Hab. Ad folia viva *Fici caricae* in hortis prope *Villa Rica*, Jan. 1881 (sub num. 3547).

Obs. Stylosporae obovatae v. subpyriformes, antice plus minusve rotundatae (20-25×12-13), episporio pro ratione tenui, ubique minutissime densiusculeque verruculoso–papilluloso, pallide fulvo-melleae.

133. Uredo fici Cast.

Var. guarapiensis Speg.

Diag. Maculae vix manifestae, amphygenae, indeterminatae, dilute pallescentes; acervuli hypophylli numerosissimi, laxe gregarii, minutissimi (50-80 diam.), oculo nudo vix perspicui, primo epidermide velati, dein erumpentes, flavescentes; stylosporae globosae v. obovatae (24-27 × 20–24), episporio pro ratione tenui, ubique dense minuteque papilloso-verruculoso, subhyalinae v. dilutissime fulvae.

Hab. Ad folia viva *Fici ibapohy* in sylvis subvirgineis prope *Guarapí*, Mart. 1881 (sub num. 2738).

134. Uredo ficicola Speg. (n. sp.)

Diag. Maculae hypophyllae, parvulae (1-2 mllm. diam.), indeterminatae, parum manifestae, fuscescentes; acervuli minuti (150-180 diam.), solitarii v. 2-5— aggregati ad centrum ma-

cularum, primo tecti, dein erumpentes, sordide fusci; stylosporae globosae v. obovatae (22–25×18-20), episporio tenui, ubique dense valideque papilluloso-hirto, grosse guttulatae, fulvae.

Hab. Ad folia viva *Fici* species cujusdam in sylvis montanis *Cordillera de Peribebuy*, Jul. 1883 (sub num. 3881).

135. Uredo flosculosorum A. et S. = Consp. Fung. nisk. n. 362.

Hab. Ad folia viva *Bidentis helianthoidis* in paludosis prope *Pirayú*, Sept. 1881(sub num. 3560).

Obs. Maculae nullae v. vix perspicuae; acervuli epiphylli, sparsi v. laxe gregarii, magnitudine ludentes (0,2-0,4 mllm. diam.), subpulverulenti, umbrini; stylosporae obovatae v. subglobosae (20-24 × 15-20), 1-grosse guttulatae, episporio antice saepius incrassatulo, ac sublaxe minuteque asperulo, obscure fulvo-fuligineae, pedicello nullo v. vix manifesto.

136. Uredo baccharidis Speg. (n. sp.)

Diag. Maculae nullae v. vix perspicuae, parvulae, amphygenae, pallescentes; acervuli epiphylli, sparsi v. hinc inde 2-3-aggregati, mediocres (0,3-0,4 mllm. diam.), primo tecti, dein erumpentes, pallide testacei v. fulvescentes; stylosporae globosae, ellipticae v. obovatae (24-32×18-24), episporio subtenui, laxe subgrosse verrucoso-hirto, nubiloso-farctae, e hyalino dilutissime flavidae, pedicello nullo v. vix evoluto, hyalino.

Hab. In campis prope *Guarapí et Pirayú* ad folia viva *Baccharidis* species cujusdam, Oct. 1881 (sub num. 3434-3447).

137. Uredo barbara Speg. (n. sp.)

Diag. Maculae nullae; acervuli epiphylli, sparsi, orbiculares, concentrice evoluti (0,5-1,5 mllm. diam.) epidermide disrupta anulatim cincti, testacei; stylosporae globosae v. inferne leniter depressae (24-28×20-24), episporio crassissimo hyalino, grosse laxissimeque papilloso, protoplasmate granuloso-nubiloso, aureo v. aurantio repletae.

Hab. Ad folia viva *Senecionis* species cujusdam in sylvaticis prope *S. Barbara et Villa Rica*, Jan. 1882 (sub num. 3530).

138. Uredo Gibertii Speg. = Fung. Arg. pug. II, n. 46.

Hab. Ad folia viva *Hyptidis* species cujusdam in *Pastoréo de Caá-guazú*, Jan. 1882 (sub num. 3556).

Obs. Stylosporae globosae (22-25 diam.), episporio tenui, dense minuteque papilluloso-granuloso, fusco-melleae.

139. **Uredo guarapiensis** Speg. (n. sp.)

Diag. Maculae parum manifestae, quandoque fere nullae quandoque latissimae, obscure determinatae, fuscescentes; acervuli epiphylli, minuti (150-250 diam.), albescentes v. pallide flavescentes, dense gregarii, *aecidioli* speciem quamdam simulantes, primo hemisphaerici, tecti, dein lacero-erumpentes; stylosporae subglobosae v. obovatae (16-26 × 13-20), antice obtuse rotundatae, postice subattenuato-truncatae, episporio subtenui, laxe grosseque papilluloso, subhyalinae.

Hab. Ad folia viva *Rubiaceae* species cujusdam in sylvis prope *Guarapí*, per ann. 1880-1883 (sub num. 3455-3801).

Obs. Maculae subpellucidae, et acervuli utrinque prominuli; species ob habitum mox distinguenda.

140. **Uredo hydrocotyles** Mntgn. = *Speg.*, Fung. Arg. pug. 1, n. 39.

Hab. Ad folia viva *Hydrocotyles bonariensis* in palude *Goiaviti* vocata inter *Pirayú* et *Yaguaron*, Oct. 1882 (sub num. 3749).

141. **Uredo maclurae** Speg. (n. sp.)

Diag. Maculae nullae; acervuli hypophylli, sparsi v. hinc inde parce laxeque aggregati, minuti (200-300 diam.), albido-flavescentes; stylosporae limoniformi-ellipticae v. obovatae (24-30 × 10-18), utrinque obtusiuscule rotundatae, episporio tenuissimo, minute denseque papilluloso, nubiloso-farctae, fuscidulae v. chlorino-fulvellae.

Hab. Ad folia viva *Maclurae morae* in sylvis subvirgineis prope *Guarapí*, Jul. 1883 (sub num. 3879).

142. **Uredo medusa** Speg. (n. sp.)

Diag. Maculae amphygenae, epiphyllae mediocres (2-2,5 mllm. diam.), centro arescenti-griseae, ambitu zona irregulari, fusca v. nigricante limitatae, hypophyllae indeterminatae, pallescentes; acervuli stylosporici teleutosporicis commixti (cnfr. *Puccinia medusa* Sp.), hypophylli, compacti, pulvinati, testacei; stylo-

sporae obovatae v. subturbinatae (20-26 × 17-19), antice truncatae v. obtusissime rotundatae, apice v. a medio verrucis majusculis, densis, rectis, obtusis armatae, episporio crassiusculo, praecipue ad verticem, saepius grosse 1– guttulatae, nubiloso-farctae, pallide melleo-fuligineae.

Hab. Ad folia viva *Pithecoctenii clematoidei* in dumetis prope *Villa Rica,* Jan. 1882 (sub num. 3491).

143. **Uredo neurophyla** Speg. (n. sp.)

Diag. Maculae nullae v. parvulae, pallescentes, indeterminatae: acervuli minutissimi, vix perspicui (50-60 diam.), hypophylli hinc inde densiuscule gregarii, praecipue secus nervos tertiarios, maculam aurantiacam pulverulentam mentientes; stylosporae ellipticae v. globoso-obovatae (15-18×14-15), episporio praecipue antice valde incrassato, ubique irregulariter ruguloso subpapilloso, protoplasmate nubiloso farctae, e hyalino dilute fulvellae.

Hab. Ad folia viva *Myrtaceae* cujusdam in sylvaticis prope *Villa Rica*, Jan. 1882 (sub num. 3466).

144. **Uredo subneurophyla** Speg. (n. sp.)

Diag. Maculae nullae; acervuli hypophylli, minutissimi ac vix perspicui (60-80 diam.), hinc inde densiuscule gregarii, praecipue secus nervos secundarios et tertiarios, maculas aurantiacas pulverulentas mentientes; stylosporae globosae (15–18 diam.), episporio hyalino, pro ratione tenui, laxe submajusculeque verruculoso, protoplasmate guttulato-oleoso, aureo v. luteo farctae.

Hab. Ad folia viva *Psidii* species cujusdam in sylvis montanis, *Cordillera de Peribebuy,* Jul. 1883 (sub. num. 3800).

Obs. Species externa facie praecedenti simillima, sub microscopio tamen, characteribus genitalium perscrutatis, mox dignoscenda.

145. **Uredo paraguariensis** Speg. (n. sp.)

Diag. Maculae amphygenae, suborbiculares, definitae, subparvulae (1-2 mllm. diam.), pallescentes v. obscure virescentes; acervuli hypophylli, subminuti (250-300 diam.), solitarii, centro macularum insidentes, pallide fulvescentes; stylosporae ellipticae v. e mutua pressione subirregulares, utrinque late rotundato-subtruncatae (20-24×15-20), episporio tenui, ubique dense et minutissime (subimperspicue), rugoso-striatae, protoplasmate nubiloso farctae, subhyalinae.

Hab. Ad folia viva *Monesiae* species cujusdam in collinis *Cerro Hu* prope *Paraguarí*, Oct. 1881 (sub num. 3437).

146. **Uredo peribebuyensis** Speg. (n. sp.)

Diag. Maculae vix manifestae, amphygenae, pallescentes, indeterminatae; acervuli hypophylli (rarissime epiphylli), laxe gregarii, primo tecti dein erumpentes, pulchre aurantiaci v. pallide miniati, submajusculi (0,5-1 mllm. diam.), saepeque confluentes; stylosporae globosae v. globoso-obovatae (18-24×16-20), episporio pro ratione tenui, obscure subdenseque punctulato-asperulo, protoplasmate guttulato-oleoso farctae, aurantiacae, pedicello nullo v. brevissimo, crassiusculo, hyalino.

Hab. Ad folia viva *Monniniae* species cujusdam in montuosis *Cordillera de Peribebuy*, 2 Apr. 1883 (sub num. 3772).

147. **Uredo rufa** (Bon.) Speg. = *Bon.*, B. Fl. Eur. 194.

Hab. Ad folia viva *Phaseoli* species cujusdam in dumetis prope *Guarapí*, 1880 (sub num. 3460).

148. **Uredo prunorum** Lk. = Spec. II, p. 82.

Hab. Ad folia viva *Persicae vulgaris* in hortis prope *Guarapí* et *Paraguarí*, per ann. 1881-83 (sub num. 3463-3889).

Obs. Stylosporae ovatae, utrinque rotundatae, (26-30×12-15), episporio vertice crassissimo ac laevi, ceterum minute ac dense granuloso-papilluloso, e hyalino fulvae.

149. **Uredo rhombica** Speg. (n. sp.)

Diag. Maculae nullae v. parvae, indeterminatae, pallescentes; acervuli hypophylli, sparsi v. laxe 1-5-gregarii, minuti (0,2-0,4 mllm. diam.), testacei; stylosporae elliptico-limoniformes v. elliptico-rhomboideae, utrinque obtusiusculae (25×15-20), episporio antice satis incrassato, ubique dense minuteque verruculoso-hirto, intus grosse 1-guttulatae, nubilosae, fulvae.

Hab. Ad folia viva *Astronii juglandifolii* in montanis *Cordillera de Peribebuy*, Jul. 1883 (sub num. 3797).

150. **Uredo tinctoria** Speg. (n. sp.)

Diag. Maculae et acervuli ut in forma teleutosporica (cnfr. *Puccinia tinctoria* Sp.), quacum mixta adest; stylosporae globoso-obovatae (25-30×22-24), episporio pro ratione crassiusculo praecipue ad verticem, ubique minutissime (vix perspicue) gra-

nuloso-asperulo, protoplasmate guttulato nubiloso farctae, pallide fulvae.

Hab. Ad folia viva *Eupatorii tinctorii* in sylva montana *Naranjo, Cordillera de Peribebuy,* Jul. 1883 (sub num. 3862).

151. UREDO MALVICOLA Speg. (n. sp.)

Diag. Maculae nullae v. amphygenae, parum manifestae, parvulae, indeterminatae, superne fuscescentes inferne pallescentes; acervuli laxe gregarii v. sparsi, hypophylli, minuti (120-150 diam.), pulverulenti, lateritii, ab indumento foliorum suboccultati; stylosporae globosae v. obovatae (15-18 diam.), episporio modice incrassato, minute densissimeque papilloso, protoplasmate oleoso-guttulato farctae, pallide fulvae.

Hab. Ad folia viva *Abutilonis* species cujusdam in dumetis collinis *Cerro Hu* prope *Paraguarí*, Apr. 1883 (sub num. 3887).

152. UREDO VALENZUELIANA Speg. (n. sp.)

Diag. Maculae nullae v. parum manifestae, indeterminatae, pallescentes, saepeque totum folium occupantes; acervuli hypophylli, laxe gregarii v. sparsi, minuti (250-300 diam.), tumiduli, primo tecti dein erumpentes, testaceo-fuscescentes; stylosporae globoso–obovatae v. e mutua pressione subirregulares (20-25 × 13-16), episporio modicissime incrassato, laevi v. vix superne laxe minutissimeque granuloso, protoplasmate nubiloso farctae, pallide fulvo-melleae; paraphyses in glomerulis periphaericae, elongato-subteretes, arcuato-incurvae, apice subattenuato-rotundatae, basi truncatae (20 × 7-8), dense constipatae, e hyalino subchlorino-melleae.

Hab. Ad folia viva *Metastelmatis diffusi* in dumetis vallis *Ya–can* vocatae inter *Valenzuela* et *Paraguarí,* 9 Nov. 1882 (sub num. 3729).

153. UREDO ZEAE Dsm.

Hab. Ad folia viva *Zeae Maydis* in arvis prope *Guarapi*, Dec. 1882 (sub num. 3734).

154. AECIDIUM AUSTRALE Speg. (n. sp.)

Diag. Maculae quandoque nullae, quandoque amphygenae, latissimae ac fere totum folium occupantes, indeterminatae, pallescentes, medio saepe subincrassatulae; pseudoperidia hypophylla in plagulas majusculas (3-8 mllm.diam.), subellipticas constipata,

minuta (150-180 diam.), flavida, primo subglobosa dein poculato-aperta, ore vix exerto, crenulato albicante, membranacea, contextu parenchymatico–loricato, e cellulis obovatis v. elliptico-rhomboideis, utrinque truncato-obtusatis (18-20×12-16), crasse tunicatis, dense minutissimeque granulosis, hyalinis composito; sporae subglobosae e mutua pressione saepius obtuse polygonae (14-17×12-15), episporio crassiusculo, laevissimo, hyalino, protoplasmate nubiloso-granuloso lutescente farctae.

Hab. Ad folia viva *Erigerontis bonariensis* in uliginosis prope *Paraguarí*, 22 Nov. 1882 (sub num. 3753).

155. AECIDIUM IPOMEAE Speg. = Fung. Arg. pug. I, n. 52.
var. MINUS

Diag. Maculae nullae v. vix manifestae, pallescentes, indeterminatae; pseudoperidia hinc inde compactiuscule 4-15-aggregata, hypophylla, membranacea, contextu parenchymatico-loricato e cellulis ex elliptico obtusissime hexagonis (15-20×13-15), crasse tunicatis grosseque subradiatim rugosis, hyalinis composito; sporae ellipticae, saepe e mutua pressione angulosae (18-20×13-16), crassiuscule tunicatae, episporio dense sed minutissime (vix lente pervalida) granuloso-asperulo, subhyalinae.

Hab. Ad folia viva *Ipomeae* species cujusdam in dumetis prope *Guarapí*, Maj. 1882 (sub num. 3754).

156. AECIDIUM TUCUMANENSE Speg. = Fung. Arg. pug. IV, n. 98.

Hab. Ad folia viva *Hyptidis* species cujusdam prope *Arroyo-guazú* in sylva *Caá-guazú*, Jan. 1882 (sub num. 3563).

157. CERATITIUM? GUARANITICUM Speg. (n. sp.)

Diag. Maculae minutae (1-2,5 mllm. diam.), quandoque pallescentes, indeterminatae, quandoque fuscescenti-subarescentes determinatae, per aetatem saepius incrassatulae ac subbullosae; pseudoperidia centro macularum insidentia, 5-15-subfasciculato-congesta, subcylindrica(300-350 long.×100-150 diam.), longe exerta, deorsum subconfluentia, sursum libera, divaricatula, ore integro v. erosulo, longitudinaliter fissa, pallescentia v. flavescenti-alba, membranacea, contextu irregulariter elongato-hexagono, cellulis (25-30×10-20) radiatim rugulosis, subhyalinis; sporae globosae v. e mutua pressione subangulosae (20-26

×16-20), episporio tenui, densissime minutissimeque granuloso-papilloso, hyalinae.

Hab. Ad folia viva *Salviae* species cujusdam in uliginosis prope *Carapeguá*, 24 Jul. 1873 (sub num. 3798).

158. TUBERCULINA GUARANITICA Speg. (n. sp.)

Diag. Maculae nullae v. hypophyllae, minutae ac parum conspicuae, fuscescentes; acervuli hypophylli, minuti (150-220 diam.), centro macularum insidentes, 3-7-aggregato-confluentes, sordide fuscescenti-carnei v. purpurascentes; sporae globosae (6-8 diam.), episporio laevissimo, non v. vix minutissime granuloso-asperulo, nubiloso-farctae, pallide lilacinae; sterigmata elongato-clavulata (25-30×4–5), laevia, lilacina.

Hab. In foliis vivis *Salviae* species cujusdam (socio *Ceratitio guaranitico* Sp.) in uliginosis prope *Carapeguá*, 24 Jul. 1883 (sub num. 3798).

159. TUBERCULINA ARECHAVALETAE Speg. (n. sp.)

Diag. Maculae amphygenae, determinatae, majusculae, (3-8 mllm. diam.), arescenti-pallescentes; acervuli hypophylli per maculas diffusi, sparsi v. plus minusve aggregato-confluentes, primo tecti dein nudi, minuti (80-150 diam.), sordide fusco-purpurascentes; sporae globosae v. globoso-subovatae (7-8 diam.), laxissime ac minute papillulosae, nubiloso-granuloso farctae, hyalinae v. perdilute fumosae; sterigmata elongato-clavulata (30-60×2,5-3,5), fasciculata, hyalina v. fumoso-vinosa.

Hab. Ad folia viva *Cupaniae* species cujusdam in dumetis prope *Guarapí*, Nov. 1882 (sub num. 3728).

160. TUBERCULINA MALVACEARUM Speg. (n. sp.)

Diag. Maculae epiphyllae, indeterminatae, fuscescentes, majusculae (3–10 mllm. diam.); acervuli epiphylli in maculis hinc inde 3-8-aggregato–confluentes, minuti (100-180 diam.), fusco-vinosi; sporae globosae v. hemisphaericae (an semper ?), e mutua pressione saepe angulosae (7-8 diam.), tenui tunicatae, granuloso-farctae e hyalino fumoso-vinosae; sterigmata in epidochio carnoso, fusco v. sordide vinoso, merenchymatico confluentia, ac parum perspicua.

Hab. Ad epiphyllum foliorum *Abutilonis* species cujusdam (socio

Uromycete malvacearum Sp. hypophyllo), in pratis prope *Paraguarí*, Mart. 1881 (sub num. 2741).

161. ENTYLOMA GUARANITICUM Speg. (n. sp.)

Diag. Maculae amphygenae, subparvae (1-5 mllm. diam.), saepius bullosae, subindeterminatae, superne saepe aureo-pulverulentae, inferne cinerascentes, parenchymate subtumefactulo ; sporae in cellulis parenchymatis constipatae, globosae sed e mutua pressione saepius irregulariter angulosae (10-14 diam.), crassiuscule tunicatae, dense granuloso-farctae. hyalinae.

Hab. Ad folia viva *Araliaceae?* species cujusdam in dumetis prope *Guarapí*, Dec. 1882 (sub num. 3731).

PHYCOMYCETEAE DBy.

PERONOSPOREAE DBY.

162. CYSTOPUS BLITI (Biv.) Lév. = Ann. Sc. nat. ser. III, v. VIII.

Hab. Ad folia viva *Euxoli muricati* in campis prope *Paraguarí*, 1880 (sub num. 3459).

163. CYSTOPUS CONVOLVULACEARUM Speg.

C. cubicus (Strauss.) Lév. f. *Ipomeae* Rav. = Fung. Am. n. 501.

Diag. Maculae amphygenae, parvulae (3-5 mllm. diam.), vix determinatae, fuscescentes ; acervuli amphygeni saepius confluentes, ambitu macularum insidentes, ac eas anulatim cingentes, albo-pallescentes v. subflavescentes, primo epidermide tecti, dein erumpenti-liberi, compactiuscule pulverulenti; conidia catenulata, apicalia vix aliis longiora, omnia e globoso-elliptica v. globoso-cubica (15-20 × 12-13), anulo transverso latissimo ac crassissimo cincta, hyalina ; oogonia non visa.

Hab. Ad folia viva *Ipomeae gossypioidis* in pratis uliginosis prope *Paraguarí*, Nov. 1882 (sub num. 3551).

164. CYSTOPUS CONVOLVULACEARUM Speg.

Var. MINOR.

Diag. Maculae nullae v. amphygenae, minutissimae, subindeterminatae, fuscescentes; acervuli hypophylli, minuti (150-300 diam.), densiuscule sparsi, non confluentes, primo tecti dein

erumpentes, sordide albescentes; conidia catenulata, omnia aequalia, e globoso elongato-cubica, parvula (12-14×9-11), crasse lateque anulato-fasciata, hyalina; oogonia non visa.

Hab. Ad folia viva *Ipomeae* (batatas) *edulis* in arvis prope *Pastoréo de Caá-guazú*, Jan. 1882 (sub num. 3549).

165. CYSTOPUS PORTULACAE (DC.) Lév. = l. c.

Hab. Ad folia viva *Portulacae oleraceae* vulgatissimus prope *Paraguarí*, Nov. 1881 (sub num. 3554).

PYRENOMYCETEAE Fr.

PERISPORIACEAE FR.

ERYSIPHEAE Lév.

166. PHYLLACTINIA SUFFULTA (Reb.) Sacc.=Syll. Fung. v. I, p. 5.

Hab. Ad folia viva *Colliguayae brasiliensis* in sylva montana *Naranjo*, *Cordillera de Peribebuy*, 24 Maj. 1883 (sub num. 3815).

Obs. Specimina non plane matura, ascis sporisque deficientia; characteres externi perfecte cum typo conveniunt.

167. UNCINULA AUSTRALIS Speg. (n. sp.)

Diag. Epiphylla; mycelium arachnoideum, grisescenti-album, late folia ambiens, eisque arcte adnatum, tenue, compactiusculum, non pulverulentum; perithecia densiuscule hinc inde sparsa, globoso-depressa, minuta (100-120 diam.), atra, glabra, membranaceo-coriacella, contextu parenchymatico, parum perspicuo, fuligineo, basi 20–40 appendicibus radiantibus ornata; appendices divaricatae (100-130×4-7), utrinque gradatim attenuatae et laeves, medio saepius incrassatulae ac minutissime densiusculeque granuloso-papillosae, apice saepius semel plus minusve circinatae (rarius rectae atque obtusatae), hyalinae. Asci et sporae non visa.

Hab. Ad folia viva *Myrtaceae* species cujusdam in dumetis prope *Paraguarí*, 24 Maj. 1883 (sub num. 3814).

Perisporieae Sacc.

168. **Dimerosporium tropicale** Speg. (n. sp.)

Diag. Epi- v. hypo phyllum, saepissime in consortio (an parasiticum?) *meliolarum*, subcrustaceum, tenuissimum, epidermide foliorum arcte adnatum, e fibris dense ramoso-intricatis, gracilibus (5-6 crass.), confertiuscule septatis, fuligineis, hyphopodiis destitutis, substantia mucosa connexis compositum; perithecia globosa, minuta (70-100 diam.), astoma (?), atra, superficialia, glabra, tenui membranaceo-coriacella, contextu parenchymatico, cellulis minutis (3-3,5 diam.) composito, fuligineo donata; asci teretes v. obclavati, antice truncato–rotundati, deorsum breviter et abrupte attenuato-stipitati (25-40 × 6-8), non v. parce paraphysati, 8- spori; sporae distichae, ellipticae v. subclavulatae (11-12 × 3-3,5), utrinque obtusae, centro 1-septato-constrictae, loculis subaequalibus v. infero nonnihil minore acutioreque, grosse 2- guttulatis, saepius medio leniter coarctatis, hyalinae.

Hab. Ad folia viva arborum in sylvis subvirgineis prope *Guarapi*, Jun. et Jul. 1883 (sub num. 3781 et 3794).

169. **Dimerosporium guarapiense** Speg. (n. sp.)

Diag. Epiphyllum; mycelium tenuissimum, epidermide foliorum arcte adnatum, maculas atras subparvulas (1-3 mllm. diam.), laxiuscule sparsas, saepe tamen confluentes ac fere totum folium occupantes efficiens, e fibris gracilibus (2-2,5 crass.), ramosis, dense intricato-intertextis, hyphopodiis destitutis, substantia mucosa connexis, obscure septatis, brunneo-fuligineis compositum; perithecia globosa, minutissima (80-150 diam.), hinc inde per mycelium laxe conferta, atra, astoma, pilis paucis, saepius 8 v. 10, minutis (30-40 long. × 3-4,5 crass.), apice incurvis v. subcircinatis, non septatis, pallide olivaceis, fuligineis ornata, membranacea, contextu parenchymatico, olivaceo-pellucido, parum perspicuo; asci teretes v. obclavati, antice truncato-rotundati, postice subabrupte attenuato-coarctati, brevissime noduloseque stipitati (28-40 × 9-12), octospori, aparaphysati; sporae distichae, primo continuae, dein centro 1-septato-constrictae, rectae v. subinaequilaterales, utrinque obtusissime rotundatae (10-13 × 2,5-5), loculis grosse 2- gut-

tulatis, medio non v. leniter coarctatulis, subaequalibus v. infero nonnihil graciliore ac longiore, in juventute hyalinae, dein e chlorino pallide olivaceae.

Hab. Ad folia viva arborum (*Euphorbiacearum* et *Solanacearum*) in sylvis prope *Guarapí* et *Mbatobí*, Maj. 1881 et Jul. 1883 (sub num. 2731-3848).

Obs. Species haec duo (n. 168 et 169) saepe in consortio *meliolarum*, an potius in illis parasiticae? Sporae 1-septatae, sed facile per aetatem 3-septatae et generi *Asteridio* adscribendae.

170. DIMEROSPORIUM? DUBIOSUM Speg. (n. sp.)

Diag. Epiphyllum; mycelium foliorum epidermidi arcte adnatum, ac maculas subdefinitas, ellipticas (longitudinales), parvulas (1-3 mllm. long.×0,5-1 mllm. lat.), laxe hinc inde gregarias, rarissime confluentes efficentia, crustaceo-puberulum, atrum, compactiusculum, e fibris longiusculis dense ramoso-intertextis, subgracilibus (4-5 crass.), densiuscule septatis, testaceis compositum; perithecia in maculis dense 8-15-aggregata, globosa, parvula (120-130 diam.), atra, astoma (?), pilis brevibus (20-30 ×5-8), dense grosseque septatis, apice obtusis ac saepe incurvis, testaceis vestita, contextu indistincte spongioso-coriacello, rufo-fuligineo, subopaco; asci cylindracci (78-100×6-7), apice truncato-rotundati, et crassiuscule tunicati perforatique, basi breviter attenuato-stipitati, aparaphysati, octospori; sporae distichae v. oblique monostichae, elliptico-lanceolatae, utrinque obtusiusculae, medio 1-septatae, non v. vix constrictae, rectae v. subcurvulae (18-20×3-4), loculis non v. minute 2-guttulatis, supero saepe subbreviore crassioreque, hyalinae.

Hab. Ad folia viva *Bambusaceae* cujusdam in uliginosis, *Pastoréo de Caá-guazú*, Jan. 1882 (sub num. 3539).

HYALODERMA Speg. (n. gen.)

Diag. Mycelium biogenum, tenue, dematieum; perithecia minutissima, globosa, astoma, deorsum merenchymatico-radiantia persistentia, fusca, sursum anhysta, mucedinea, hyalina, mox fatiscentia, glabra; asci obovati, octospori, aparaphysati; sporae aciculares, pluriseptatae, hyalinae.

171. HYALODERMA IMPERSPICUUM Speg. (n. sp.)

Diag. Hypophyllum rarius epiphyllum; mycelium tenuissimum

vix perspicuum, arcte epidermide foliorum adnatum, mucedineo-fibrosum, atrum, radians, plagulas fuscas hinc inde efficiens; perithecia in plagulis laxe gregaria, minutissima (60-80 diam.), globosa, astoma, fuscidula, postice membranacea persistentia, contextu merenchymatico–radiante, antice anhysta, hyalina, fatiscentia; asci pauci (vix 8-12), obovati, sursum late rotundati ac crassissime tunicati, deorsum attenuati, breviter noduloseque stipitati (40-45×12-18), octospori, aparaphysati; sporae fusoideo-aciculares, utrinque acutiusculae (30-38×2-2,5), 4-septatae, ad septa non v. vix constrictae, loculo secundo supero crassiore, hyalinae.

Hab. Ad folia viva arborum (*Sapindacearum, Solanacearum* etc.) in sylvis prope *Guarapi*, Jul. 1883 (sub num. 3795).

Obs. Species saepius in consortio *meliolarum* v. *dimerosporiorum*, an potius in illis parasitica?

172. ASTERIDIUM? BAMBUSELLUM Speg. (n. sp.)

Diag. Epiphyllum; mycelium nullum v. vix e fibris paucis crassis, brevibus, fuligineis intricato-ramosis compositum; perithecia hinc inde in plagulas lineares, strictas ac breves (2-5 mllm. long.×0,2-0,5 mllm. lat.) disposita, dense constipata, basi subconfluentia (an vere confluentia et tandem *Dothideacea?*), globosa (180-220 diam.), atra, glabra, rugulosa, astoma (?) sed per aetatem lacero-dehiscentia, membranaceo-coriacella, contextu crassiusculo, obscure parenchymatico-sinuoso, olivaceo-fuligineo; asci cylindracei v. subcylindraceo-clavati, apice subtruncato-rotundati crassiusculeque tunicati, deorsum attenuati, breviterque noduloso-stipitati (65-75×8), paraphysati, octospori; sporae distichae v. oblique monostichae, elongato-ellipticae (16-20×4-5), rectae v. leniter inaequilaterales, centro 1-septato-constrictae, loculis grosse 1-2-guttulatis ac medio subcoarctatis, supero obtusiore crassioreque, infero graciliore acutioreque, per aetatem 3-septatae, hyalinae.

Hab. Ad folia viva *Bambusaceae* cujusdam in uliginosis sylvae *Naranjo*, 24 Maj. 1883 (sub num. 3830).

173. ASTERIDIUM PERIBEBUYENSE Speg. (n. sp.)

Diag. Epiphyllum; mycelium late diffusum, folium totum saepe obtegens, atrum, tenue, mucedineo-crustaceum, e cellulis ellipsoideis v. e mutua pressione irregularibus, mediocribus (articulis

hypharum), grosse 2-guttulatis (5-7×3-4), olivaceis compositum, arcte foliorum epidermide adnatum; perithecia dense sparsa v. hinc inde plus minusve aggregata, globosa, minuta (80-100), astoma, atra, glabra, tenui membranacea, contextu parenchymatico, parum distincto, olivaceo; asci pauci, ovati v. obclavati, antice truncato-rotundati atque crassissime tunicati (tunica 6-8 crass.), postice abrupte attenuato-coarctati, minute noduloseque stipitati (26-28×10-12), octospori, aparaphysati; sporae polystichae, elongato-ellipsoideae (12 14×3), rectae v. inaequilaterales, medio 1-septatae, vix constrictae, loculis centro 1-septatis, non constrictis, supero crassiore brevioreque, hyalinae.

Hab. Ad folia viva arborum in sylva montana *Naranjo*, *Cordillera de Peribebuy*, 24 Maj. 1883 (sub num. 3833).

Obs. Species, ut videtur, vulgatissima, saepius in consortio *meliolarum* v. *dimerosporiorum*, et facilime in illis parasitica.

174. MELIOLA AMPHYTRICHA Fr. = Elench. Fung. II, n. 109.

Hab. Ad folia *Compositarum* arborescentium in sylvis prope *Paraguari*, 5 Mart. 1883 (sub num. 3751).

Obs. Amphygena; mycelium fibroso-subcrustaceum, plagulas orbiculares, primo sparsas dein confluentes ac saepe totum folium obtegentes efficiens, atrum; hyphae steriles repentes, septatae fuligineae (3-8 crass.), dense intricato-ramosae, hyphopodiis capitatis (10×5), alternis, densiusculis ornatae, hyphae conidiiferae exsurgentes, rectae, paucae, sparsae, rigidae, crassiusculae (300-550×5-10), atrae, opacae, septatae, apice integrae, obtusae; perithecia atra, globosa (250-300 diam.), subcarbonacea, glabra, granulosa, sparsa v. hinc inde in centro macularum aggregata; asci 1-3-spori, mox diffluentes; sporae maturae ellipticae v. elliptico-cylindraceae, utrinque obtusissimae (55-60 ×18-20), 4-septato-constrictae, primo hyalinae, dein per aetatem opace fuligineae.

Notae specificae characteristicae *meliolarum* fere plane ignotae ac perdifficiles; eorum studium adhuc vere intricatum eorumque monographia summa necessitate videtur.

175. MELIOLA CORONATA Speg. (n. sp.)

Diag. Epiphylla; mycelium tenuissimum, effusum, plagulas fuscescenti-atras, parum perspicuas, saepe confluentes, hinc inde efficiens, ex hyphis sterilibus, radiantibus, repentibus, tortuosis,

septulatis, hyphopodiis capitatis (20×10), alternatim ornatis, fuligineis compositum, hyphis conidiiferis destitutum ; perithecia majuscula, globosa (200-250 diam.), centro plagularum insidenti-aggregata, in sicco cupulato-collapsa, grosse papillulosa, deorsum nuda, sursum pilis longiusculis, rectis (60-80×5) fuligineis, apice integris et obtusis, 1-2 septatis laxe donata, facillime decidua, coriacello-membranacea, contextu obscure grosseque parenchymatico (cell. 10-13 diam.), olivaceo-fuligineo; asci elliptici (40-50×20), mox fatiscentes, aparaphysati, 2-spori; sporae ellipticae, utrinque obtuse rotundatae (40×15), primo hyalinae, continuae, dein opace fuligineae, 4-septatae, loculis grossissime 1-guttulatis.

Hab. Ad folia viva *Luheae divaricatae* in sylvis subvirgineis prope *Guarapí*, Jul. 1883 (sub num. 3847).

176. MELIOLA FURCATA Lév. = *Sacc.*, Syll. Fung. p. 63, n. 285.

Hab. In foliis vivis *Astronii* et *Bignoniae* in sylvis prope *Guarapí* et *Peribebuy*, Maj. 1881 et Jul. 1883 (sub num. 2730-3791-3844).

Obs. Specimina guaranitica ab illis Americae septemtrionalis nonnihil recedunt ; an species duo distinctae ? Sporae magis graciles ac breviores (32-45×12-14) ; hyphae conidiiferae apice saepius 5-denticulatae.

177. MELIOLA GUARANITICA Speg. (n. sp.)

Diag. Amphygena ; mycelium tenue, compactiusculum, subvelutinum, atrum, plagulas subparvas (3-8 mllm. diam.), hinc inde efficiens, ex hyphis sterilibus, repentibus, dense ramoso-intricatis, crassiusculis (6-7 crass.), flexuosis, fuligineis, *hyphopodiis destitutis* compositum, hyphis conidiiferis, erectis, rectis, longiusculis (200-250×5-6), apice integris acutisque, opacis, non septatis sublaxe vestitum ; perithecia centro macularum insidentia, a setulis conidiiferis suboccultata, globosa (150-200 diam.), glabra, laevia, atra, coriacello-membranacea, contextu parenchymatico, pellucido, atro-olivaceo ; asci mox diffluentes ; sporae elliptico-elongatae, utrinque obtuse rotundatae (40-45×14-18), 3-septatae, fuligineae, loculis duobus extimis pallidioribus.

Hab. Ad folia viva arborum in sylvis subvirgineis prope *Guarapí*, Jan. 1883 (sub num. 3781).

178. MELIOLA LUDIBUNDA Speg. (n. sp.?)

Diag. Amphygena ; mycelium tenue, effusum, plagulas atras ve-

lutinas, plus minusve latas, saepeque totum folium ambientes, efformans, ex hyphis repentibus dense intricatis, conferte oppositeque ramosis, ramis hyphopodiis globoso-capitulatis (10-12 diam.), numerosissimis ornatis, crassiusculis (6-8 crass.) fuligineis compositum, hyphis conidiiferis rectis, setuliformibus, pluriseptatis, longiusculis (100-300×5-10), apice integris ac subobtusis ornatum; perithecia globosa, in sicco saepius cupulato-collapsa (150-200 diam.), glabra, papilluloso-rugulosa, atra, sparsa v. aggregata, senescendo facillime decidua, coriaceo-membranacea, contextu parenchymatico, parum distincto, atro-olivaceo; asci elliptici (45-55×30-35), bispori, mox diffluentes; sporae cylindraceae v. subelliptico-cylindraceae, magnitudine ludentes (28-45×9-14), 4-septatae, ad septa leniter constrictae, utrinque obtuse rotundatae, fuligineae.

Hab. Ad folia viva arborum herbarumque prope *Guarapi*, *Paraguarí*, *Villa Rica*, *Caá-guazú* per ann. 1881-83 (sub num. 2720-2745-2800-3489-3494-3503).

Obs. Sub hoc nomine formas (species?) plurimas parum definitas (fere *M. amphitrichae* Fr. varietates minores tantum proferentes), hyphis erectis,apice integris, simplicibus, hyphis repentitibus hyphopodiis 1-(rarius 2-) septatis, subglobosis v. ellipticis, oppositis ornatis colligo; formis his tamen sedulius perscrutatis et characteribus definitis, species plurimae certe inveniendae.

179. **Meliola obesa** Speg. (n. sp.)

Diag. Epiphylla; mycelium subcrustaceum, subfragile, foliorum epidermide arcte adhaerens, tenue, plagulas orbiculares, magnitudine varias (1-5 mllm. diam.), atras, opacas efficiens, ex hyphis sterilibus, repentibus,dense intertexto-ramosis, muco conjunctis, hyphopodiis ovoideo-capitulatis (20×8-10), basi 1-2 septatis, suboppositis ornatis efformatum, hyphis conidiiferis destitutum; perithecia globosa v. globoso-depressa (140-200 diam.), atra, glabra, granulosa, membranaceo-coriacea, contextu subindistincto, grosse parenchymatico-celluloso, subopaco, atro-fuligineo; asci 2-spori, cito diffluentes; sporae ellipticae, utrinque rotundatae (30-32×18-20), 4-septatae, ad septa constrictulae, loculis granuloso-guttulatis, primo hyalinae, dein opace fuligineae.

Hab. Ad folia viva *Ruthaceae* species cujusdam in sylvis subvirgineis prope *Pirayú*, Jul. 1883 (sub num. 3834).

SPHAERIACEAE Fr.

ALLANTOSPORAE Sacc.

180. EUTYPA LUDENS Speg. (n. sp,)

Diag. Stroma plus minusve late effusum e cortice v. ligno nigrefacto efformatum ; perithecia plus minusve dense constipata, laxe v. dense bullatim erumpentia, globulosa, submembranacea, contextu subindistincte parenchymatico, olivascente, ostiolo breviusculo, atro, carbonaceo, obscure cruciato-rugoso, stromatis superficiem vix attingente donata ;asci clavati, parte sporifera subfusoidea (30-40×4-5), apice truncato-rotundati, deorsum attenuati et in stipite gracili (30-50×1-2), hyalino producti, aparaphysati, octospori; sporae allantoideae (7-8×1,5), utrinque 1-guttulatae, dilute chlorinae.

Hab. Ad ramos ac truncos emortuos putrescentes prope *Guarapi*, Jun. et Sept. 1881 (sub num. 2783-2813).

181. VALSA (*leucostoma*) GUARAPIENSIS Speg. (n. sp.)

Diag. Perithecia hinc inde monostiche aggregata, cortice nidulantia, epidermidemque pustulatim minute (0,4–0,6 mllm. diam.) elevantia, globulosa, membranacea, contextu parenchymatico-elongato, dilute olivaceo, ostiolis brevibus carbonaceo-atris , convergentibus ac disculum irregulare et vix exertum efformantibus ornata; asci fusoidei, parte sporifera subfoidea (30-35×6), apice truncati, basi in stipite mox fatiscente, elongato (70-80 ×1–2), hyalino producti, octospori ; sporae distichae, botuliformes (5-6×1), utrinque 1-guttulatae, hyalinae.

Hab. Ad ramos plantae scandentis (*Cissus?*) cujusdam prope *Guarapí*, ann. 1881 (sub num. 2795).

182. CRYPTOVALSA PLATENSIS Speg. = Fung. Arg. pug. I, n. 84.

Hab. Ad ramos plantae cujusdam scandentis (*Cissus?*) prope *Guarapí*, ann. 1881 (sub num. 2795).

HYALOSPORAE Sacc.

183. LAESTADIA GUARANITICA Speg. (n. sp.)

Diag. Maculae amphigenae, suborbiculares (2-8 mllm. diam.),

determinatae, tenui griseo-arescentes, subpellucidae; perithecia epiphylla in maculis laxe gregaria,tecta, globulosa, minuta (80-90 diam.), glabra, laevia, atra, membranacea, ostiolo minuto, rotundo, contextu grosse celluloso-parenchymatico, fuligineo-olivaceo; asci clavati, antice obtuse rotundati et subcrassiuscule tunicati, postice breviuscule attenuato-stipitati (50-55×10), octospori, aparaphysati; sporae distichae v. monostichae, ellipticae, medio tumidulae, utrinque subtruncato-rotundatae (10-11 ×5), non v. vix inaequilaterales, nubiloso-farctae, hyalinae.

Hab. Ad folia viva *Monesiae* species cujusdam in dumetis collinis *Cerro Hu* prope *Paraguarí*, Oct. 1881 (sub num. 3438).

184. LAESTADIA GUARAPIENSIS Speg. (n. sp.)

Diag. Perithecia laxe gregaria, epidermide tenui, albescente tecta, eaque saepe adnata, lenticulari-globosa (150-200), atra, glabra, membranaceo-coriacella, contextu subindistincto; asci clavati, sursum obtusissime rotundati crasseque tunicati, deorsum breviter attenuato-stipitati (75-85×15-18), octospori, aparaphysati ; sporae distichae, ellipticae, medio tumidulae, utrinque subtruncato-rotundatae, rarius acutatae (18-20×8), non v. vix inaequilaterales, granuloso-farctae, hyalinae.

Hab. Ad ramulos dejectos putrescentes *Ricini communis* prope *Guarapí*, Oct. 1881 (sub num. 3428).

Obs. Species eximia, distinctissima; an huc *Botryosphaeria Delilei* (Dur. et Mntg.) Sacc. ?

185. PHYSALOSPORA PARAGUAYA Speg. (n. sp.)

Diag. Perithecia primo tecta, dein erumpenti-semiimmersa, laxe gregaria ac irregulariter hinc inde subseriata, e globoso-conoidea (150-180 diam.), atra, laevia, glabra, ostiolo impresso-pertuso donata, membranaceo-coriacella, contextu minutissime ac subindistincte parenchymatico , atro-olivaceo ; asci cylindracei (65-70×3-4), apice truncato-rotundati, crassiusculeque tunicati, postice breviuscule attenuato-pedicellati, octospori, paraphysibus mucoso-evanescentibus, densis obvallati; sporae monostichae, ellipticae, utrinque plus minusve rotundatae (5-8×2,5), non v. grosse 1-2 guttulatae, hyalinae.

Hab. Ad culmos dejectos putrescentes *Sacchari officinarum* in cultis prope *Guarapí*, Maj. 1881 (sub num. 2776).

DIATRYPEOPSIS Speg. (n. gen.)

Diag. Stroma a matricis substantia heterogeneum, erumpenti-superficiale, effusum; perithecia stromate immersa, ostiolis r:ctis; asci octospori; sporae cylindraceo-ellipticae, utrinque truncato-subrotundatae, hyalinae.

Obs. Genus pulchellum stromatis ac peritheciorum habitu generi *Hypoxylon* Bull. et generi *Diatrype* Fr. accedens; sporis tamen ab utroque satis distinctum.

186. DIATRYPEOPSIS LACCATA Speg. (n. sp.)

Diag. Stromata ligno subinnata, primo tecta, dein ob corticem secedentem nuda, irregulariter elliptico-elongata (5-10 mllm. long. = 1-2 mllm. lat. = 0,5-1 mllm. crass.), glabra, laevissima (vix sub lente valida dense minutissimeque punctulata) atra, sublaccato-nitentia; perithecia dense constipata, recta, elliptica v. obovata, saepe e mutua pressione angulosa (250-300 alt.×100-150 diam.), atra, coriacella, ostiolo minuto, recto, non v. vix stroma perforante donata; asci cylindracei (70-75×4), apice obtusissime rotundati, basi modice attenuato-stipitati, octospori, aparaphysati; sporae recte monostichae, cylindraceae v. cylindraceo-subellipticae, utrinque truncatae v. vix rotundatulae (6-7, 5×3-4, 5), grosse 2-guttulatae, hyalinae.

Hab. Ad truncos emortuos putrescentes in sylvis subvirgineis prope *Guarapi*, 19 Jul. 1881 (sub num. 2770).

Obs. Species praedistincta; an huc *Hypoxylon stygium* (Lév.) Sacc. ducendum.

PHAEOSPORAE Sacc.

187. ROSELLINIA PULVERACEA (Ehrh.) Fuck. = *Sacc.* Syll. Fung. I, n. 968.

Var. PLATYSPORELLA Speg.

Diag. Perithecia densissime conferta, plagas atras, granulosas, subcrustaceas, latissime matricem obtegentes efficientia, globosa, minuta (120-180 diam.), nigra, glabra, dense granuloso-rugosa, coriaceo-subcarbonacea, opaca, ostiolo impresso-pertuso donata; asci cylindracei, apice truncati, basi modice attenuato pedicellati (65-70×8), octospori, paraphysibus crassiusculis, septulatis, raris obvallati; sporae oblique v. recte monostichae, e

fronte ellipsoideo-sphaeroideae (8-10×7-8,5), e latere compressae (2-3 crass.) primo olivaceae, dein opace fuligineae.

Hab. Ad lignum denudatum truncorum *Citri aurantii* prope *Guarapi*, 29 Jul. 1881 (sub num. 2767).

188. ANTHOSTOMELLA *(euanth.)?* PARAGUAYENSIS Speg. (n. sp.)

Diag. Perithecia matrice pallide nigrescente insidentia, primo tecta, dein erumpenti-semiimmersa, densiuscule gregaria, saepius subseriatim disposita, e globoso conoidea, parvula (150-200 diam.), atra, laevia, glabra, coriaceo-membranacea, contextu atro, subopaco, dense minuteque parenchymatico-sinuoso, ostiolo papillulato, per aetatem deciduo, saepe subhysteriatim dehiscente coronata; asci cylindracei, apice truncati v. obtuse rotundati, basi modice attenuato-stipitati (60-75×4-6), octospori, aparaphysati; sporae recte v. oblique monostichae, e fronte ellipsoideae, rarius subinaequilaterales (10×5), e latere compressae (2,5-3), utrinque rotundatae, non v. 1 — 2 grosse guttulatae, obscure fuliginae.

Hab. Ad culmos dejectos putrescentes *Sacchari officinarum* in cultis prope *Guarapi*, 8 Maj. 1881 (sub num. 2791).

189. ANTHOSTOMA (*euanth.*) CHIONOSTOMA Speg. (n. sp.)

Diag. Stroma longe lateque effusum, cortice non v. vix mutato innatum parumque manifestum, intus atrum; perithecia hinc inde subseriatim aggregata, epidermide tecta, stromate immersa, e conoideo-globosa (750-900 diam.), coriaceo-membranacea, contextu inconspicuo, atro, opaco, ostiolo crassiusculo, brevi, recto, subterete, matricis stromatisque superficiem attingente non v. vix exertum ac corticem subpustulatim elevante, disculum parvum, centro pertusum, niveum exerente; asci cylindracei, antice obtuse rotundati atque crassissime tunicati, perforati, postice breviter attenuato-pedicellati (150-180×15-20), paraphysibus crassiusculis, guttulatis, raris obvallati, octospori; sporae oblique monostichae, ellipticae (26-34×12-20), utrinque rotundatae, rectae v. inaequilaterales, plus minusve intense ac subopace fuligineae.

Hab. Ad corticem putrescentem arborum in sylvis subvirgineis prope *Guarapi*, 1881 (sub num. 2798).

Obs. Species pulcherrima, corticem ostiolis candidis perforans, mox dignoscenda!

190. **Nummularia guaranitica** Speg. (n. sp.)

Diag. Stromata erumpentia, orbicularia (5-10 mllm. diam.), pulvinatula (1-1,5 mllm. crass.) laxe gregaria, rarius confluentia, applanata v. vix medio depressula, margine acute rotundata, disco primo pruinula, saepe subcrustacea, cœrulescenti-alba vestito, dein nudo, glabro, fusco-atro, laevi v. vix sub lente valida minutissime punctulato; perithecia elliptico-cylindracea, erecta, densissime constipata (1 mllm. alt. × 250-300 diam.), atra, coriacella, ostiolo minutissimo, non v. vix stromatis superficiem attingente donata; asci cylindracei, sursum rotundato-truncati, crassiusculeque tunicati, deorsum modice attenuato stipitati (p. sp. 75 × 6 = ped. 12-15 × 2), octospori, pseudoparaphysibus, fluxilibus, crassissimis, praelongis obvallati sporae ellipticae (10×5), recte monostichae, minutissime granuloso-papillulosae, non v. vix granuloso farctae, chlorino-carneae.

Hab. Ad ramos ac truncos dejectos putrescentes in sylvis subvirgineis prope *Guarapí,* Jul. 1881 (sub num. 2769).

Obs. Species pulchella distinctissima, sporis vix coloratis a genere nonnihil recedens.

191. **Ustulina microspora** Speg. (n. sp.)

Diag. Stromata erumpenti-superficialia, repando-pulvinata, minuta (5-6 mllm. diam. = 1-2 mllm. crass.), determinata, margine tumidulo, rotundato, saepe confluentia, subcolliculosa, carbonacea, glabra, atra, opaca, basi coarctata applanato-adnata, intus (deorsum praecipue), alba; perithecia stromate immersa, globoso-elliptica (750-900 alt. × 550-750 diam.), coriaceo-membranacea, atra, opaca, ostiolo minuto superficem stromatis attingente ac non v. vix prominulo donata; asci cylindraceo-clavati, sursum non v. vix attenuati, rotundati (p. sp. 80-110 × 8-14), deorsum plus minusve longe attenuato-pedicellati, octospori, paraphysibus densis, gracillimis obvallati; sporae monostichae v. distichae, elongato-ellipticae (20-25 × 7-8), utrinque acutato-rotundatae v. subapiculato-limoniformes, inaequilaterales, subopace fuligineae.

Hab. Ad corticem putrescentem truncorum in sylvis prope *Guarapí* (sub. num. 3780).

Obs. Species ludens inter genus *Hypoxylon* Bull. et genus *Ustulina* Tul., sed secundum specimina, quae mihi adsunt, melius sub postremo militare videtur.

192. **Hypoxylon subvinosum** Speg. (n. sp.)

Diag. Euhypoxylon; stromata latissime irregulariterque subpulvinato–effusa (2-30 cent.) subtenuia (0. 5 mllm. crass.), matrici arcte adnata, margine sterili nullo, plus minusve undulato-tuberculosa v. scruposa, hinc inde rimulosa, densissime granulato-mammillosa, extus tenuissime pruinuloso-velutina, griseo-subvinosa v. fusco-violascentia, intus primo coffeicolor, dein fusco-atra; perithecia monosticha, perdense constipata, globosa (300-400 diam.) e mutua pressione non v. vix angulosa, ad tertium superum tantum prominula ac hemisphaerica, centro minute abrupteque papillulato-ostiolata, carbonacea; asci cylindracei longe stipitati (p. sp. 70-80 × 6 - 6, 5 = ped. 40-50), apice subtruncato-rotundati, octospori, paraphysibus subfluxilibus, vix longioribus dense obvallati; sporae recte v. oblique monostichae, elliptico-naviculares, utrinque acutiuscule rotundatae (10-11 × 5-6), non v. grosse 1-guttulatae, opace fuligineae.

Hab. Ad corticem putrescentem arborum in sylvis prope *Guarapí*, Nov. 1881 (sub num. 3423).

Obs. Species *H. vinoso* Mntg. affinis, sed intus non luteo-cerina, nec margine sterili donata.

Species hac nec non omnes sequentes mihi difficillimae ad determinandum fuerunt, ob diagnoses numerosissimas saepeque imperfectissimas hujus generis, et in plurimis perdubiosus adhuc maneo.

193. **Hypoxylon plumbeum** Speg. (n. sp.)

Diag. Euhypoxylon: stromata matrice subpulverulento-nigrefacta insidentia, discoideo-repanda ac convexo-pulvinata (3-6 mllm. diam. = 1-2 mllm crass.), margine determinata non v. vix subcoarctata, sparsa v. aggregata saepeque confluentia, dense mammillosa, fere rubiformia, extus primo pruinula subcrustacea, non detersili, plumbeo- v. argenteo-grisea vestita, dein nuda, atra, intus fusco-rubiginosa v. fusco-atra; perithecia 10-50- aggregata, ad tertium superum tantum prominulo–hemisphaerica, laevissima, ostiolo minutissimo, imperspicuo non papillato donata; asci cylindracei, modice stipitati (100-110 × 6 - 6, 5), apice subtruncato–rotundati, octospori, paraphysibus densis, filiformibus obvallati; sporae recte v. oblique monostichae, ellipticae v. elliptico-naviculares, utrinque acutato-obtusatae (10 - 12 × 5-6), 1 v. 2-guttulatae, opace fuligineae.

Hab. Ad ligna cariosa putrescentia in nemorosis prope *Guarapí*, 2 Aug. 1881 (sub num. 2760).

Obs. Species praecedenti affinis, sed peritheciis majoribus distinctissima.

194. HYPOXYLON CRUSTACEUM (Sow.) Nitz. = *Sacc.* Syll. Fung. I, n. 1463.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Guarapí*, 29 Julio 1881 (sub num. 2762).

Obs. Placoxylon : stromata pulvinato-effusa (10-20 cent. lat. = 0. 7-1 mllm. crass.), superficialia, ligno denudato ac nigricante insidentia, primo velo pruinuloso tenuissimo fusco-plumbeo vestita, dein nuda, atra, opaca, dense granulosa; perithecia globosa (450-550 diam.) e mutua pressione angulosa, vix rotundato-prominula, atra, carbonacea, ostiolo papillato, minute exerto donata; sporae elliptico-naviculares, utrinque obtusiusculae (8-10×4-5), opace fuligineae.

Specimina guaranitica a typo peritheciis conspicue minoribus recedunt. An eadem species?

195. HYPOXYLON CROCATUM Mntg. = *Sacc.* Syll. Fung. I, n. 1438.

Hab. Ad truncos ac ramos dejectos putrescentes in sylvis subvirgineis prope *Paraguarí*, Jul. 1883 (sub num. 3919).

Obs. Euhypoxylon; stroma late effusum, fere *Corticii* speciem quamdam simulans, margine determinato, repando-sinuoso, latiuscule sterili v. matrici subdiscreto, laevi centrum versus gradatim pulvinato-undulatum, obsolete granulosum, minutissime pruinulosum-furfuraceum, primo croceum, dein sordide rubiginosum, postremo fuscescens; perithecia monosticha, obovata (600×400-450), tenuia, submembranacea, fusco-atra, substantia stromatica, superne sanguinea inferne fusca, inmersa, ostiolo non v. vix stromatis superficem attingente exertoque, minutissimo donata; asci cylindracei, antice rotundati, postice attenuato-stipitati (55-60 ×6-7), paraphysibus filiformibus, subseptulatis, densis obvallati, octospori; sporae oblique monostichae, ellipticae, rectae v. subnaviculares (9-11 × 5-6,5), primo grosse 2-guttulatae, dein opace fuligineae.

196. HYPOXYLON NECTRIOIDE Speg. (n. sp.)

Diag. Euhypoxylon; stromata tuberculoso-pulvinata, pulvinulis ir-

regularibus, sparsis v. hinc inde aggregato-confluentibus (3-5 mllm. lat. = 0,5-1 mllm. crass.), margine determinatis atque subcoarctatulis, primo rubris dein rubiginosis, pruinuloso-furfuraceis v. squarrulosis; perithecia in pulvinulis ad medium fere usque prominula, globulosa, extus rubiginoso-squarrulosa, hyphis repentibus septulatis (3-3, 5 crass.) ornata, intus carbonacea, atra, ostiolo mammillato, apice discoideo-applanato (150 diam.) ac medio poro (50-70 diam.) pertusum donata; asci mox diffluentibus, paraphysibus densis obvallati; sporae ellipsoideo-naviculares, utrinque obtusiusculae (12–15 × 7), opace fuligineae.

Hab. Ad corticem putrescentem arborum frondosarum in sylvis prope *Guarapí*, Jul. 1881 (sub num. 2762).

Obs. Species pulchella externa facie formae depauperatae ac senescentis *Nectriae cinnabarinae* (Td.) Fr. simillima.

197. HYPOXYLON ALBO-STIGMATOSUM Speg. (n. sp.)

Diag. Placoxylon; stroma late effusum (5-25 cent. = 0,5-1 mllm.), crustaceum, durum, superne applanatum, plus minusve scruposo-undulatum, margine non sterile, repando-sinuosum, sordide rubiginosum v. fusco-ferrugineum, non v. obsoletissime granulosum, laxe papilloso-stigmatosum, stigmatibus (ostiolis peritheciorum) griseis v. albis, furfurellis, intus atrum; perithecia non v. vix prominula, densissime constipata, monosticha, elliptica (300-350 diam.), coriacea, atra, ostiolo minuto vix perspicuo stroma perforante ac vix exerto, apice umbilicato-perforato, albo notato donata; asci cito diffluentes, paraphysibus filiformibus mucosis densis obvallati; sporae ellipticae, saepius inaequilaterales, utrinque obtuse acutatae (9-10 × 3, 5-4), 1-guttulatae, opace fuligineae.

Hab. Ad ligna cariosa putrescentia in umbrosis uliginosis prope *Guarapí*, 10 Jul. 1878 (sub num. 2765).

198. HYPOXYLON RUBIGINOSUM (Pers.) Fr. = *Sacc.* Syll. Fung. I, n. 1434.

Hab. Ad ramos et truncos putrescentes in sylvis prope *Guarapí*, Jul. 1881 (sub num. 2765).

Obs. Specimina guaranitica a typo nonnihil recedunt externa facie praecipue, sed nondum evoluta, et tandem iterum inquirenda.

199. **Hypoxylon guarapiense** Speg. (n. sp.)

Diag. Placoxylon; stroma majusculum (10-25 cent.), primo epidermide tectum, dein ea secedente nudum, matrici arcte adnatum, effusum, ambitu indeterminatum, sterile, gradatim centrum versus subpulvinatum (1-1, 5 mllm. crass.) leniter undulatum, non v. obsoletissime granulosum, primo furfuraceo-griseum, dein rufescens, postremo sordide fusco–rubiginosum; perithecia monosticha, obovato-globosa, substantia atra stromatis immersa, coriacea (300-350 diam.), fusca; asci cylindracei, antice rotundato-truncati, postice attenuato-pedicellati (p. sp. 60-65 × 6,5-7 = ped. 25-30), octospori, paraphysibus filiformibus, densis, obvallati; sporae oblique v. recte monostichae, elliptico-naviculares, utrinque acutato-rotundatae (10×5), e latere (praecipue ad medium) compressae (3 crass.), primo grosse 2-guttulatae dein opace fuligineae.

Hab. Ad ramos dejectos putrescentes *Citri aurantii* in nemorosis prope *Guarapí*, 29 Jul. 1881 (sub. num. 2764).

Obs. Species pulchella sed externa facie saepe ludibunda, *H. atropurpureo* Fr., ut videtur, satis affinis.

200. **Hypoxylon dubiosum** Speg. (n. sp.)

Diag. Euhypoxylon; stromata majuscula (5-10 mllm. diam.) solitaria v. aggregata, saepeque confluentia, hemisphaerico-pulvinata (5-6 mllm. crass.), ambitu rotundato-coarctatula, non v. vix repandula, obsoletissime ruguloso-papillosa, primo sordide griseo-fusca (pruina detersili obducta), dein (nuda) atra, intus fusco-grisea v. plumbeo-atra radiatim fibrosa, non v. vix sericeo-nitentia; perithecia periphaerica monosticha, dense constipata elliptica v. subobovata, e mutua pressione saepe angulosa (700-800 long. × 400-450 diam.) coriacella, in stromatis superficie non v. vix. prominula sed obsolete discoideo-applanata, ostiolo vix lente valida perspicuo, non exertulo ac saepe hysterioideo ornata; asci mox diffluentes non visi; sporae ellipticae v. naviculares, utrinque obtuse acutatae (12-14 × 6-6, 5), opace fuligineae.

Hab. Ad corticem duriorem arborum dejectorum putrescentium in uliginosis nemorosis prope *Guarapí*, Jul. 1881 (sub num. 2763-71).

Obs. Species pulchra *H. hypomilto* Mntg. affinis; cum *H. solido* B. et C. certe cognata, sed descriptione nimis manca.

201. HYPOXYLON SUBNIGRICANS Speg. (n. sp.)

Diag. Euhypoxylon: Stroma ligno denudato nigrificatoque late ambiens (5-15 cent.), applanato-pulvinatum (0,5-1 mllm. crass.), ambitu repando-subdeterminatum, non effusum, non v. leniter undulatum, dense regulariterque granulato-mammillosum, primo pulvere fusco vestitum, dein nudum, atrum saepeque subnitens: perithecia e globoso-ellipsoidea (300-350 diam.), densissime constipata, parce prominula, ostiolo minutissimo, umbonato-papillulato donata, carbonacea, atra; asci et paraphyses mox fluxiles; sporae elliptico-naviculares, utrinque acutato-rotundatae (10-11×4.-4, 5), opace fuligineae.

Hab. Ad ramos decorticatos putrescentes arborum in dumetis prope *Guarapi*, Nov. 1881 (sub num. 3424).

202. HYPOXYLON MBAYENSE Speg. (n. sp.)

Diag. Euhypoxylon; stromata matrice squarrulosule nigrefacta insidentia, sparsa v. pauci-aggregata, oligocarpa, rotundata v. elongata, parvula (1-3 mllm. =0,5-1 mllm.), pulvinata (0.5 mllm. crass.), margine obtusato-determinata, ruguloso-scrupulosa, subpruinuloso-aspera, primo fuscescenti-atra, dein extus intusque atra; perithecia 5-20-aggregata, globulosa (400-450), e mutua pressione angulosa, non v. vix prominula, disco (si perspicuo) applanato v. subumbilicato, ostiolo minutissimo, non visibile nec papillato perforata, subcarbonacea, nigra; asci cylindracei, apice rotundati (p. sp. 70-75×8-9=ped. 25-30×2-3), octospori, paraphysibus filiformibus densissimis obvallati; sporae recte monostichae, valide naviculares v. rarius ellipticorhomboideae (10-11×6-7.5), utrinque obtusae, primo olivaceae, pellucidae, grosse 1-2-guttulatae, dein opace fuligineae.

Hab. Ad truncos decorticatos putrescentes *Quebrachiae Lorentzii* Grs. in sylvis subvirgineis prope *Mbay*, 17 Febr. 1882 (sub num. 3419).

Obs. Species externa facie formam depauperatam *H. fusci* (Prs.) Fr. simulans, sed characteribus internis praedistincta.

203. HYPOXYLON INTERMEDIUM Speg. (n. sp.)

Diag. Endoxylon: Stromata primo epidermide tecta dein erumpentia v. cortice secedente nuda, matrici nigrificata innato-effusa (3-5 cent. diam.), vix pulvinata ac undulatula, laxe gregaria v. confluentia, ambitu irregulariter repanda, intus extus-

que sordide fusco-atra, opaca, minutissime (vix oculo nudo) et laxe punctulata, superficem *Diatrype stigmatis* (Hoffm.) Fr. in mente revocantia; perithecia elliptico-globosa (350-400 diam.), monosticha, densissime constipata, atra, carbonacea, non prominula, ostiolo papillulato e stromate breviter exerto donata; asci cylindracei, apice rotundati, basi breviter pedicellati (65-75×7), paraphysibus paucissimis diffluentibusque inmixti, octospori; sporae ellipticae, utrinque late rotundatae (9-10×6), rectae v. vix inaequilaterales, oblique monostichae, opace olivaceo-fuligineae.

Hab. Ad ramos truncosque putrescentes in sylvis vetustis prope *Guarapi*, Jul. 1881 (sub num. 2728).

Obs. Species primo visu *H. anthracoidi* Fr. (sec. Speg. Fung. Arg. p. IV. n. 131) simillima, sed mox dignoscenda ostiolis prominulis, sporisque utrinque rotundato-obtusis.

204. HYPOXYLON SUBEFFUSUM Speg. (n. sp.)

Diag. Placoxylon; stroma erumpens, matrice nigrificata insidens, late ambiens (15-20 cent.=0,5-1 mllm. crass.), elongato-repandulum, modice pulvinato-undulatum, margine acutato-diffusum, dense majusculeque granulosum, atrum, glabrum, opacum; perithecia densissime conferta, globulosa v. obovata, majuscula (550-780 diam.), parce e stromate prominula atque apice minute discoideo-depressa, disculo marginato medio papillato-ostiolato; asci cylindracei, antice rotundato-truncati, postice longissime attenuato-pedicellati (p. sp. 55-65×2,5)· octospori, paraphysibus paucis, exillimis, subfluxilibus obvallati; sporae recte laxeque monostichae, elliptico-elongatae (6-7×2,5) utrinque late rotundatae, leniter inaequilaterales, non v. 2 guttulatae, opace fuligineae.

Hab. Ad truncos emortuos non putrescentes *Eugeniae*, species cujusdam, in nemorosis prope *San Tomas*, 15 Dic. 1882 (sub num. 3766).

Obs. Species *H. effusi* Nitz. peraffinis; an tantum ejusdem varietas?

205. HYPOXYLON CAAGUAZU Speg. (n. sp.)

Diag. Placoxylon; stromata matrice denudata ac nigrificata insidentia, latiuscule effuso-pulvinata (5-10 cent. diam.=1-1,2 mllm. crass.), ambitu repandula, quandoque rotundata quandoque effusa, superficie scrupuloso-undulata ac per aetatem

saepius dense minutissimeque diffracto-rimulosa, confertissime papilluloso-aspera, fusco-atra, opaca, glabra; perithecia globulosa, minuta (200-250), densissime stipata, conoideo-prominula, ostioloque parvulo-coronata, atra, carbonacea, strato stromatico tenui, fusco-fibrosulo insidentia; asci et paraphyses mox fatiscentes; sporae oblique monostichae, naviculares, utrinque acutato-rotundatae (9-11×4-5), opace fuligineae.

Hab. Ad ligna putrida in umbrosis prope *Paraguari*, Jan. 1882 (sub num. 3359-3360).

Obs. Species pulchella ac satis distincta, in inventute plurimis characteribus *H. fusco-purpureo* (Sw.) Brk. ac *H. vinoso* Mntg. ut videtur affinis.

206. HYPOXYLON TURBINATUM Berk.=*Speg.* Fung. Arg. pug. IV n. 134.

Var. GUARANITICUM Speg.

Diag. Euhypoxylon; stromata obconica, solitaria v. dense gregaria, rarissime confluentia, superne applanato-truncata (7-8 mllm. alt.=9-16 mllm. diam. sup.), margine recto, prominulo, obtuso, disco convexulo, centro plano v. depressulo, glabra, atra, opaca, laevia v. minutissime (vix sub lente valida) rugulosa v. sparse papillulosa; cortex crassiusculus (0,2-0,4 mllm. crass.), durus, corneo-carbonaceus, in fracturis resinose nitens, diu persistens, vix centro disci apicalis per aetate mobliteratus ac evanescens, a substantia interna stromatis distinctissimus; substantia interna totum corticis stromatis cavum implectens, homogenea, fusco-atra v. coffeicolor, obsolete fibrosula, in fracturis sericeo-nitens; perithecia sub disco supero in cavitate lenticulare dense aggregata, verticalia cylindraceo-elliptica (1-2 mllm. long.× 0,3-0,4 mllm. diam.), membranaceo-coriacella, per aetatem fragilia ac friabilia, ostiolo minuto (vix evoluto), disci stromatis superficiem vix attingente imperspicuoque donata; asci obovato-clavati (p. sp. 32-40×12-15), longissime pedicellati, sed facile decidui, paraphysibus densissimis guttulatis v. septulatis, granulosis, obscure chlorinis (2-3,5 crass.) obvallati, octospori; sporae distichae v. polystichae, inordinatae, ellipticae, utrinque obtusissime rotundatae (10-12×5-6), e latere non compressae, rectae, intense ex olivaceo clorinae.

Hab. Ad truncos vetustos emortuos *Citri aurantii* in sylvis prope *Guarapí*, per annis 1879-81 (sub num. 2775-3417).

Obs. Species pulcherrima a genere certe satis desciscens ac facile in novo genere constituenda inter Hypoxylum et Camilleam.

207. KRETZSCHMARIA GUARANITICA Speg. (n. sp.)

Diag. Stroma solitarium, extus atrum, intus albo-farctum, glabrum; stipes deorsum insititius rectus v. curvus, irregulariter incrassato-scruposus, glaber v. vix pruinulosus, sursum rectus, erectus gracilis (20-30 mllm. long.=0,5-1 mllm. crass.), teres, apicem versus gradatim leniterque attenuatus, fusco-ater, longitudinaliter minute denseque granulosus, glaber, vertice abrupte in clavula expansus; clavula plus minusve regulariter hemisphaerico-lenticularis (5–8 mllm. diam.=1 mllm. crass.) margine acute rotundata, inferne sterilis, laevis, superne convexula fertilis, densiuscule mammilloso-papillata, atra; perithecia monosticha, globoso-subdepressa (400-450 diam.), extus atra, crassiuscula, coriacella, e stromate parum prominula, ostiolo umbonato-papillato, apice saepius minute umbilicato ac zona fulvella, vix perspicua, cincto donata; asci cylindracei, sursum obtusissime rotundati, crassissime tunicati, obturaculo majusculo medio perforato, iode ope intense coerulescente, ornati (p. sp. 130-150×10-13), deorsum attenuato-stipitati, octospori, paraphysibus densis obvallati; sporae elliptico-v. ovoideo-naviculares, primo grosse 1-guttulatae, guttula saepe ocellulata, dein opace fuligineae, utrinque rotundatae (20-22×9-10), extremitate infera cristula hyalina decidua, hemisphaerica, stricta ornatae.

Hab. Ad ramos dejectos putrescentes in sylvis subvirgineis prope *Guarapí,* 1881 (sub num. 3356).

Obs. Species pulchra distinctissima, generibus Kretzschmaria et Poronia intermedia.

208. KRETZSCHMARIA PUIGGARII (Speg.) Sacc.=*Speg.* Fung. Arg. p. IV. n. 139 (sub *Xylaria*).

Hab. Ad truncos putrescentes in sylvis uliginosis prope *Guarapí,* Aug. 1881 (sub num. 2779-85).

Obs. Specimina guaranitica vix differe videntur a brasiliensibus, capitulis stromatis densius congestis, nonnihil minoribus; asci tetraspori, sed hexaspori etiam occurrunt; sporae nonnihil breviores (20-26×7).

209. **Xylaria polymorpha** (Pers.) Grev.=*Sacc.* Syll. Fung. I, n. 1150.
Var. **mentzeliana** Tul.

Hab. Ad radices truncosque putrescentes in sylvis prope *Guarapí*, Jul. 1881 (sub. num. 2773).

Obs. Asci cylindracei antice truncato-rotundati, crasse tunicati, postice breviter attenuato-pedicellati (150×7-8), octospori, parce paraphysati; sporae recte v. oblique monostichae, elliptico-elongatae, utrinque rotundatae (22-23×5-6), saepe inaequilaterales, opace fuligineae.

210. **Xylaria polymorpha** (Pers.) Grev.
Var. **fastigiata** Speg.

Hab. Ad radices truncorum putrescentium in sylvis prope *Guarapí*, ann. 1883 (sub num. 3349).

Obs. Stromata basi longe repenti-rhizomorphoidea, simplicia, tecta, dein erumpenti-exerta, erecta, brevia, glabra, fusco-atra abrupte 8-20 fasciculato-ramosa, ramis subteretibus (5-10 cent. long.—2-4 mllm. crass.), apice obtusis, extus nigris, albo-pruinulosis, intus albis. Specimina nondum matura, iterum inquirenda.

211. **Xylaria grammica** Mntg.=*Sacc.* Syll. Fung. I, n. 1189.

Hab. Ad truncos vetustos putrescentes prope *Guarapí*, per ann. 1881-82 (sub num. 2774-3418).

Obs. Stipites primo indumento pannoso fusco v. castaneo-olivaceo, velutino vestiti, dein nudi glabri, basi saepe incrassato- dilatati; clavae in juventute albo-farctae, per aetatem fuscae, subcavae; perithecia globosa v. depressa, majuscula (600-800 diam.), ostiolo minuto vix perspicuo; asci cylindracei, antice truncati, postice longe attenuato-pedicellati (p. sp. 60-90×5-6 =ped. 30-90×1-3), octospori, paraphysibus flexuosis, gracilibus, dense pseudoseptatis obvallati; sporae recte v. oblique monostichae, inaequilaterales v. naviculares, utrinque acutiuscule angulatae (10-11×3,5-5), in sicco saepe e latere compressae (2-2,5), opace fuligineae.

212. **Xylaria biceps** Speg.=Fung. Arg. pug. IV, n. 137.
Var. **microsperma** Speg.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Guarapí*, Jul. 1881 (sub num. 2772).

Obs. A typo vix differt sporidiis conspicue minoribus (8-9×3-3,5), opace fuligineis.

213. XYLARIA DIGITATA (Linn.) Grev.=*Sacc.* Syll. Fung. I, n. 1283.
Var. TORULOSA Jungh.?

Hab. In truncis corticatis dejectis putrescentibus prope *Guarapí*, per ann. 1883 (sub num. 3774-3904).

Obs. Stromata gregaria v. sparsa, extus primo albo-leprosa, dein fusco-atra, opaca, glabra, erecta parce ramosa intus albo-farcta, rhachide fulvescente; rami plus minusve elongati (5-10 mllm. long.=0.5-1 mllm. crass.), compressiusculi, ruguloso-subtorti, glabri, apice simplices v. bifidi, clavuligeri; clavulae cylindraceae, e peritheciis laxe stipatis subsuperficialibus irregulariter, granuloso-torulosae (7-14 mllm. long =1-2 mllm. crass.), rectae v. curvulae, apice teretes v. subcompressae, saepe binatae e basi v. e medio liberae; perithecia majuscula (600 diam.), globosa, valde prominula, non v. vix papillulato-ostiolata; asci cylindracei, apice obtuse rotundati, basi plus minusve attenuato-pedicellati (p. sp. 50-70×3,5-5=ped. 40-70×1-2), paraphysibus exillimis parce obvallati, octospori; sporae recte v. suboblique monostichae, elliptico-naviculares, utrinque acutato-rotundatae (7-10×2,5-3), primo grosse 2-guttulatae, dein opace fuligineae.

Haec forma valde affinis *X. bicipiti* Speg. et a typo species satis recedit; an melius species nova?

214. XYLARIA IANTINO-VELUTINA Mntg.?=*Sacc.* Syll. Fung. I, n. 1282.

Hab. Ad siliquas putrescentes *Leguminosae* cujusdam (vulgo *Curupay*) in sylvis prope *Paraguarí*, Mart. 1880 (sub num. 3414).

Obs. Specimina guaranitica a typo recedunt villo breviusculo, laxo, fusco-fuligineo nec violaceo-brunneo; perithecia ob immaturitate desunt.

215. XYLARIA ANNULIPES (Mntg.) Sacc. = Syll. Fung. I, n. 1312. = *X. marasmoides* B. et Ck. Fung. of Brazil n. 406.

Hab. Ad cortices ramorum truncorumque putrescentium in sylvis prope *Guarapí*, 1881 (sub num. 2747).

Obs. Stipites e tuberculo nigro subcorticali parvulo (1-2 mllm. diam.) erumpente 3-15 fasciculato-exsurgentes, e basi liberi, subsetacei, rigidulo-subcarbonacei, atri, opaci, erecti v. erecto-

incurvi, graciles (3-8 mllm. long. = 0,2-0,3 mllm. crass.), plus minusve manifeste et dense annulati; clavulae carbonaceae, in stipitibus apicales sphaeroideae (0,6-0,9 mllm. diam.), extus atrae, opacae, glabrae, dense rimoso-areolatae, areolis minutis (100-120 diam.), hexagonis, planis, medio disculo vix impresso, marginato donatis, intus latissime cavae, nigrae, vix pulvere fuscescenti-olivacea adspersae; perithecia et asci non visa; sporae? ellipsoideae, utrinque rotundatae, minutae (3-4×1,5-2), dilute fumoso-olivaceae.

Species pulchella, distinctissima atque mox dignoscenda; in icone Mntg. capitulum male depictum, nam nunquam mammillosum; clavulae facillime pluriloculatae sed perithecia ut in Hypoxylo turbinato Berk. mox fatiscentia; sporae inventae, illis a Cl. Montagne depictis similes, sed ad formam spermogonicam pertinentes mihi videntur.

HYALODIDYMAE Sacc.

216. SPHAERELLA CONFERTA Speg. (n. sp.)

Diag. Maculae amphigenae, parvulae (1–2 mllm.) arescentes, sordide fusco-griseae, obscure determinatae, irregulariter discoideae, angulosae v. repandulae, densiuscule sparsae; perithecia hypophylla, rarissime epiphylla, numerosissima, densissime constipata, maculas nigrifacientia, epidermide primo tecta, dein suberumpentia, atra, glabra, globoso-lenticularia (70-80 diam.), minute papillulato-ostiolata, membranacea, contextu parenchymatico, olivaceo; asci cylindraceo-obclavati v. subovati, antice subtruncato-rotundati, postice abrupte, nodulose brevissimeque stipitati (30-35×8-10), aparaphysati, octospori; sporae distichae, elliptico-elongatae, rectae v. vix inaequilaterales, utrinque rotundatae (10-13×2,5-3), medio 1-septatae, non constrictae, loculis in senectute (an semper?) obscure diblastibus, 1-2-guttulatis, supero saepe subcrassiore, hyalinae.

Hab. Ad folia languida v. dejecta *Sapindaceae* cujusdam in sylvis prope *Guarapí*, Jul. 1883 (sub num. 3851).

Obs. Species habitu mox distinguenda, facillime ad genus *Sphaerulina* Sacc. transferenda.

217. SPHAERELLA SORDIDULA Speg. (n. sp.)

Diag. Perithecia hinc inde sparsa v. pauca laxe aggregata, matrici circum circa pallescente v. albicante (caeterum sordide grisea) insidentia, tecta, vix prominula, ostiolo minuto epidermidem perforante, exerto donata, uda globulosa, sicca cupulato-collapsa, (80-100 diam.), atra, membranacea, contextu parenchymatico, pellucide fuligineo, ostiolo subcarbonaceo, opaco; asci ovati v. obclavati, crassi, apice obtuse rotundati, basi abrupte minute brevissimeque stipitati (30-35 × 12-15), aparaphysati, octospori; sporae di-tri-stichae elliptico-elongatae, utrinque rotundatae, (12-14 × 4-5) medio 1-septatae, leniter constrictae, loculis 2-guttulatis, aequalibus v. supero vix majore, hyalinae.

Hab. Ad siliquas exsiccatas adhuc pendulas *Cassiae* species cujusdam in dumetis prope *Guarapi*, Jul. 1883 (sub num. 3803).

218. LIZONIA ? GUARANITICA Speg. (n. sp.)

Diag. Maculae amphigenae, subarescentes non v. obscure determinatae ex orbiculari irregulariter repando-angulosae parvae (2-5 mllm. diam.), sordide fuscae v. olivascentes; perithecia hypophylla, laxiuscule gregaria, subsuperficialia, basi matrici insculpta, primo lepidibus tecta, dein inter illas prominulo-subexerta, globosa v. globoso-depressa, atra, glabra, laevia (100-110 diam.), vertice minute perforato-ostiolata, membranaceo-subcoriacella, contextu subgrosse parenchymatico, fusco-atro; asci cylindraceo-obclavati, antice truncato-rotundati, crassiusculeque tunicati, postice abrupte, breveque attenuato-stipitati (45-50 × 7-10), aparaphysati, octospori; sporae hyalinae 2-3-stichae, fusoideae v. elongato-ellipticae (18 × 2,5) utrinque subtruncato-rotundatae, rectae, inaequilaterales, medio 1-septatae, non constrictae, primo loculis 2-3-blastibus, dein simplicibus, eguttulatis, supero saepe obtusiore ac crassiore.

Hab. Ad folia languida *Styracis* species cujusdam in dumetis prope *Borjas*, 15 Jan. 1882 (sub num. 3464).

Obs. Species haec et saequens matrice ac fructificatione peraffines, habitu tamen maxime inter se discrepantes, nec cum genere *Lizonia* perfecte congruunt, idcirco facillime ad novum genus trahendae.

219. LIZONIA ? PARAGUAYENSIS Speg. (n. sp.)

Diag. Maculae nullae; perithecia hypophylla in glomerulis spar-

sis v. laxe gregariis, rarius confluentibus, parvulis (0,5-1 mllm. diam.) dense constipata basi saepius confluenti-coespitosa, superficialia, globosa v. elliptico-globosa (70-80 diam. = 100-110 alt.), umbonato-ostiolata, laevia, tomento v. pruinula alba v. fusca laxe adspersa, in sicco saepe collapsa, membranaceo-subcoriacea, contextu parenchymatico, atro-fuligineo, subopaco; asci ovati v. obclavati, apice obtuse rotundati v. subtruncati, crasse tunicati, basi abrupte subcoarctato-stipitulati (50-80 × 15-20), aparaphysati, octospori; sporae 2-3-stichae v. subinordinatae, elliptico-elongatae v. subfusoideae, utrinque obtusiuscule rotundatae (27-29 × 6,5), medio 1-septatae, non constrictae, aequilaterales, rectae v. curvulae, eguttulatae, hyalinae.

Hab. Ad folia viva *Styracis* species cujusdam in sylvis apud pagum *Villa Rica*, 15 Jan. 1882 (sub num. 3465).

220. Venturia Balansae Speg. (n. sp.)

Diag. Maculae nullae; perithecia hypophylla, sparsa, globosa, parvula (80-90 diam.), atra, setulis erectis, raris, cylindraceis, rectis, pluriseptatis, apice obtusis, basi subincrassatulis (30-120 × 4-5), dilute fusco-fuligineis vestita, vertice minutissime impresso-ostiolata, in sicco saepe cupulato-collapsa, tenui membranacea, contextu obscure parenchymatico-fuligineo, subiculo radiante, parcissimo, ex hyphis tenuissimis continuis, fuscescentibus, simplicibus composito insidentia; asci cylindracei, apice rotundati, crassiuscule tunicati, basi breve attenuato-stipitati (45-50 × 4,5-5), paraphysibus filiformibus, superne ramulosis, laxe obvallati, octospori; sporae hyalinae, recte et alterne distichae, elliptico-fusoideae, utrinque acutiuscule rotundatae (10-12 × 2-2,5), recte v. subinaequilaterali-curvulae, medio 1-septatae, constrictulae loculis minute 2-guttulatis, supero saepius paullulo breviore, crassiore obtusioreque.

Hab. Ad folia viva *Dichondrae repentis* in umbrosis sylvae *Caaguazú*, Jan. 1882 (sub num. 3494).

221. Eriosphaeria calospora Speg. (n. sp.)

Diag. Perithecia dense sparsa v. laxe gregaria, in matrice immutata v. vix dealbata superficialia, uda globosa (200-250 diam.), sicca cupulato-collapsa, setulis pluriseptatis fuligineis breviusculis (50-100 × 5), subcylindraceis apice acutatis v. subclavulato-hyalinis, basi non incrassatis laxissime vestita, membrana-

ceo-coriacella, atra, laevia, contextu dense subimperspicueque parenchymatico, olivaceo, subopaco, ostiolo minute umbonatulo ornata; asci elliptice v. elliptici-subfusoidei, antice truncato-rotundati, postice brevissime crasseque attenuato-stipitati (45-55 × 13-20), aparaphysati, octospori; sporae hyalinae, recte v. oblique distichae, elliptico-elongatae, utrinque acutiuscule rotundatae, non v. vix inaequilaterales, rarius subsigmoideae, medio 1-septatae, non v. leniter constrictae, loculis subaequalibus non v. 2-blastibus, episporio primo laevi, dein transverse rugosis, rugis minute tuberculosis.

Hab. Ad culmos emortuos *Bambusaceae* scandentis cujusdam in sylva subvirginea *Caa-guazú*, Jan. 1882 (sub num. 3500).

222. GIBBERA GUARANITICA Speg. (n. sp.)

Diag. Perithecia superficialia dense lateque coespitoso-stipata, plagulas (1-10 cent. diam.) granulosas, sordide rubiginosas efficientia, obovata, nigro-fusca, laevia, parvula (600 alt. = 300-350 diam.), primo ferrugineo-pruinulosa, dein glabrata, ad basin tantum subtomentosula, hyphis repentibus, parce ramosis, septulatis, gracilibus (3-4 crass.), fuligineis donata, ostiolo minute umbilicato, radiato-ruguloso, coriacella, contextu parenchymatico-indistincto, fuligineo-olivaceo, subopaco; asci cylindraceo-clavati, apice rotundati v. acutati, basi longiuscule attenuato-pedicellati (p. sp. 65-70 × 10-12 = ped. 25-30 × 3), paraphysibus filiformibus, longioribus, simplicibus v. parce ramulosis, densis obvallati, octospori; sporae oblique monostichae v. recte distichae, ellipticae, saepius inaequilaterales, medio 1-septatae, constrictulae, utrinque acutato-rotundatae (15-18 × 6-7), loculis grosse 1-guttulatis, perdilute olivascentibus.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Guarapí*, Jun. 1883 (sub num. 3784.)

PHAEODIDYMAE Sacc.

223. DIDYMOSPHAERIA RHYTIDOSPERMA Speg. (n. sp.)

Diag. Perithecia sparsa v. laxissime subseriata, epidermide areolatim nigrefacta tecta atque arcte adnata, prominula, hemisphaerico-lenticularia, majuscula (1-1,2 mllm. diam.), ostiolo minuto umbonatulo vix epidermidem perforante, non exerto donata,

crassiuscule membranaceo-carnosula, sordide albescenti-ceracea, circa ostiolum fuscescentia, saepeque coriacella, contextu prosenchymatico-fibrosulo subradiante, parum distincto, albofuscescente; asci cylindracei, apice obtusissime rotundati, postice breve attenuato-stipitati (120-130×7-8), iodi ope nulla, paraphysibus gracillimis, obscure septulatis obvallati, octospori; sporae recte monostichae, utrinque acute rotundatae, rectae, medio constrictae, loculis aequalibus, non v. 1-2-grosse guttulatis, episporio pellucido, pulchre fuligineo, longitudinaliter dense rugoso-striatis, rugis simplicibus, rectis v. vix helicoideis.

Hab. Ad culmos dejectos emortuos *Bambusaceae* cujusdam in dumetis prope *Carapeguá*, 24 Jul. 1883 (sub num. 3822.)

Obs. Species pulcherrima ac distinctissima, characteribus perithecii subnectriaceis, ac facile ut novum genus inter Nectriaceas adhibendum.

RHYNCOMELIOLA Speg. (n. gen.)

Diag. Perithecia atra, parvula, globulosa, sursum in ostiolo cylindraceo, praelongo, obtuso, producta, subiculo concolori, tomentosulo, conidiifero, phyllogeno insidentia; asci cylindraceo-clavati, aparaphysati, octospori; sporae ellipticae, didymae, chlorino-olivaceae.

Obs. Genus *Dimerosporio* Fuck. affinis, ostioli praesentia recedens, ad *Capnodium* pluribus characteribus vergens, ab utroque satis distinctum et melius sub *Sphaeriaceis* militare videtur.

224. RHYNCOMELIOLA PULCHELLA Speg. (n. sp.)

Diag. Mycelium hypophyllum, cum tomento foliorum intertextum, fusco v. olivascenti-atrum, maculas plus minusve elatas (1-15 mllm. diam.) indeterminatas, saepe confluenti-evanescentes irregulares efficiens, ex hyphis sterilibus, repentibus, dense intricatis, fuligineis, parce septatis, subcrassiusculis (4-6 crass.), hinc inde hyphis fertilibus, conidiiferis, erectis ornatis compositum; perithecia in mycelio nidulantia et abscondita, globulosa, parvula (100-110), membranacea, contextu minute parenchymatico, fuligineo-atro, glabra, laevia, superne in ostiolo praelongo, subcylindraceo (400-500 × 25-30), merenchymatico, apice truncato-rotundato, in senectute fimbriato-dehiscente, pallidiore producta; asci cylindraceo-clavati, apice rotundati,

basi brevissime attenuato-stipitati (24-28 × 5), subdiffluentibus, aparaphysati, octospori; sporae distichae, ellipticae, rectae v. vix inaequilaterales, utrinque acutato-obtusatae, medio 1-septatae, non constrictae (6-7 × 2), primo hyalinae, dein dilute olivaceae.

Hab. Ad folia viva *Feijoae Sellovianae* in sylva subvirginea *Caá-guazú*, Jan. 1882 (sub num. 3472).

Obs. Hyphae conidiiferae erectae, rectae, longiusculae (240-450 × 6-6,5) parce septatae, fuligineae, apice pallidiores, acrosporae, monospermae, simplices; conidia fusoidea v. elliptico v. clavulato-elongata, recta v. leniter inaequilateralia, antice acutiuscule rotundata, postice attenuata ac truncatula (25-55 × 7), primo continua hyalina, dein 5-10 septata, ad septa leniter constricta, eguttulata, laevia. Status conidicus tandem *Helminthosporium pulchellum* Speg. (n. sp.) sistens.

225. PARODIELLA PERISPORIOIDES (B. et C.) Speg.=*Sacc.* Syll. Fung. I, n. 2711.

Hab. Ad folia viva *Rhyncosiae* specierum plurimarum in dumetis prope *Yaguaron* et *Caa-guazú* per annis 1879-82 (sub num. 3520, 3521, 3523).

Obs. Perithecia globosa v. obovata (200-250 diam.), dense crustaceo-stipata, epiphylla, atra, glabra vix minute rugulosa v. rugulosa-papillulosa, ostiolo mammillato, coriacella, contextu grosse parenchymatico (cellulis 7-10 diam) fuligineo; asci cylindraceo-clavati, apice crassiuscule tunicati, basi brevissime attenuato-pedicellati (90-100 × 15-18), quandoque subaparaphysati, quandoque paraphysibus densissimis, filiformibus obvallati, octospori; sporae distichae, ellipticae, utrinque rotundato-truncatae v. acutato-rotundatae (22-28 × 8-10), rectae v. parum inaequilaterales, medio 1-septatae, constrictae, loculis subaequalibus v. supero nonnihil breviore, crassioreque, non v. 1-2 guttulatis, obscure fuligineae.

226. PARODIELLA PARAGUAYENSIS Speg. (n. sp.)

Diag. Perithecia epiphylla densissime aggregato-constipata, crustam, atram, granulosam, superficem foliorum obtegentem efficientia, globulosa (200-225 diam.), atra, glabra, vix rugulosa, ostiolo minutissime papillulato donata, crassiuscule membranaceo-coriacea, contextu minute parenchymatico (cellulis 3 4

diam.) parum distincto, olivaceo-fuligineo, subopaco; asci cylindraceo-clavati, apice rotundato-truncati, crasse tunicati, postice breviter grosseque stipitati (80-85 × 14) paraphysibus densissimis, filiformibus obvallati, octospori; sporae recte v. oblique distichae, ellipticae, inaequilaterales, utrinque obtusiuscule rotundatae (17-18 × 7,5-8), 1-septatae, constrictae, loculis subaequalibus, medio subcoarctatulis, 1 v. 2-guttulatis, obscure fuligineae.

Hab. Ad folia viva *Evolvuli* species cujusdam in sylva subvirginea *Caa-guazú*, Jan. 1882 (sub num. 3522).

Obs. Species praecedenti peraffinis, facile ut varietas ejusdem tantum adhibenda.

HYALOPHRAGMIAE Sacc.

227. METASPHAERIA CARAGUATÁ Speg. (n. sp.)

Diag. Perithecia primo tecta, dein erumpenti superficialia, basi tantum vix insculpta conoideo v. globoso-lenticularia (150-180 diam.), atra, glaberrima, laevissima, coriaceo-membranacea, contextu fere indistincto, densissime minuteque parenchymatico, ostiolo vix papillulato; asci clavati, antice acutiuscule rotundati, postice breviuscule attenuato-pedicellati (65-75 × 10-12), paraphysibus filiformibus densissime obvallati, octospori; sporae fusoideae v. fusoideo-subclavulatae, sursum obtusiuscule rotundatae, deorsum attenuato-acutiusculae (25-28 × 5-6), 7-9-septatae, ad septa non constrictae, primo hyalinae, dein perdilute chlorinae.

Hab. Ad folia languida *Bromeliae serrae* (vulgo *Caraguatá*) in sylvaticis prope Guarapí. Jun. 1881 (sub num. 2746).

228. ACANTHOSTIGMA GUARANITICUM Speg. (n. sp.)

Diag. Perithecia minuta, globosa v. globoso-lenticularia (150-200), sparsa, epiphylla, rarius hypophylla, ostiolo minuto pertusa, superne setulis continuis, rectis (100-150 × 4-5), fuligineis, opacis, obtusiusculis laxe vestita, membranacea, contextu parenchymatico, pellucido, fuligineo donata, hypothallo tenuissime membranaceo-subcrustaceo, e cellulis fibroso-radiantibus, ellipticis, grosse 2-guttulatis, saepe angulosis (4-10 × 3-5,5), olivaceis, pellucidis, compositum insidentia; asci ovati v. elliptico-saccati, sursum attenuati, apice rotundato-truncati, crasse tuni-

cati, deorsum abrupte coarctati, brevissime noduloseque stipitati (50 × 18-19), aparaphysati, octospori; sporae polystichae, fusoideo-clavulatae (35 × 6-6,5), saepius curvulae, 5-6 septatae, ad septa leniter constrictae, loculis 3 superis crassioribus, apice obtuse rotundatis, basi attenuato-acutatulae, hyalinae.

Hab. Ad folia viva *Eugeniae* species cujusdam in sylva subvirginea *Caa-guazú*, Jan. 1882 (sub num. 3452).

229. ZIGNOELLA? PARAGUAYENSIS Speg. (n. sp.)

Diag. Perithecia primo epidermide tecta, dein nuda, basi tantum matrici insculpta (170-180) lenticulari-conoidea, *microthyriacea*, ostiolo latiusculo perforata, atra, glabra, laevia, coriacella, contextu subindistincte parenchymatico, densiusculo, fusco v. coerulescenti-fusco; asci cylindraceo-obclavati, antice rotundato-truncati, crasse tunicati, postice subcoarctati, brevissime noduloseque stipitati (50-65 × 12-15), paraphysibus parcis filiformibus obvallati, octospori; sporae distichae, obovato-elongatae (13-15 × 5-7), 3-septatae, ad septa plus minusve constrictae, loculis 2 superis crassioribus, rectae v. saepius inaequilaterales, hyalinae.

Hab. Ad aculeos ramorum *Xanthoxyli* species cujusdam in sylvaticis prope *Paraguari*, Nov. 1881 (sub num. 3486).

Obs. Species inter lichenes et fungos nutans sine ullo dubio a genera removenda, atque inter Microthyriaceas adhibenda.

DICTYOSPOREAE Sacc.

230. PLEOSPORA (*Catharinia*) GUARANITICA Speg. (n. sp.)

Diag. Perithecia globulosa, minutissima (70-90 diam.), primo epidermide tecta, dein erumpenti, subsuperficialia, sparsa, atra, glabra, laevia, tenui-membranacea, contextu grosse parenchymatico-celluloso, olivaceo-fusco; asci cylindraceo-clavati (60-80 × 25-30), 2-3 in quoque perithecio, tenue-tunicati, antice obtusissime latissimeque rodundati, postice brevissime noduloseque stipitati, aparaphysati; octospori; sporae ellipticae (25-35 × 12-14) rectae v. vix inaequilaterales, primo crasse muco vestitae, dein nudae, septis 5 transversis, ad medium tantum constrictae, 1-2-(rarissime 0 v. 3-) longitudinalibus donatae, utrinque acutiusculae, loculis 3 superis crassioribus hyalinae.

Hab. Ad folia emortua, exsiccata, adhuc pendula leguminosae herbaceae cujusdam, Jan. 1882 (sub num. 3501).

SCOLECOSPORAE Sacc.

231. LINOSPORA? GUARANITICA Speg. (n. sp.)

Diag. Maculae vix nubiloso-manifestae fuscescentes, indeterminatae; perithecia hypophylla, sparsa v. laxissime gregaria, subglobosa (80-100 diam.), parenchymate immersa, ostiolo crassiusculo mammillato prominulo, epidermidem perforante exertoque donata, atra, glabra, coriacea, contextu indistincto, opaco, fuligineo-olivaceo; asci cylindraceo-clavulati, apice rotundati v. truncati, crassiuscule tunicati, basi vix attenuato-pedicellati (65-70×9), aparaphysati, octospori; sporae fasciculatae, aciculari-elongatae (55-65×2-2,5), leniter curvulae, utrinque acutiusculae, medio attenuatae, dense guttulatae (an postremo pluriseptatae?), hyalinae.

Hab. Ad folia viva v. languida *Myrtaceae* species cujusdam in sylvis subvirgineis prope *Guarapi*, Jan. 1882 (sub num. 2736.)

Obs. Species nonnihil a genere desciscens habitu externo, distinctissima etiam sporis, nullis adhuc cognitis, similibus.

232. CRYPTOSPORA BAMBUSAE Speg. (n. sp.)

Diag. Stromata sub v. in cortice nidulantia, lineari-elongata, laxe gregaria, parallele longitudinalia, primo epidermide tecta dein hysteriatim erumpentia, non v. vix exertula, extus grisea v. sordide fusca, intus sordide albo-subceracea, pauciperithecii-gera; perithecia stromata inmersa, ex ovoideo globosa (150-300 diam.), ostiolo minuto, conoideo subcarbonaceo stromate perforante ejusdemque superficem vix attingente donata, tenui membranacea, olivacea, contextu denso, minuto, inconspicuo, fusco; asci clavati, utrinque attenuati, apice truncati, crassissimeque tunicati perforatique, basi breviter elongato-stipitati (95–100 × 12-14), paraphysibus quandoque nullis quandoque densis, hyalinis, submucosis, simplicibus v. ramulosis, crassiusculis, obvallati, octospori; sporae elongato-fusiformes v. subaciculares, utrinque acutatae ac leniter curvulae (40-50 × 6-7) fasciculatae, 3-septatae, ad septa non constrictae, loculis grosse 1-v. 2-guttulatis, hyalinae.

Hab. Ad culmos dejectos putrescentes *Bambusaceae* cujusdam, in sylva subvirginea *Caa-guazú*, Jan. 1882 (sub num. 3416).

Obs. Species ob sporarum forma a genere satis recedens, nec non ob substantiam stromatis peritheciorumque ad Hypocreaceas vergens. In iisdem stromatibus adsunt perithecia spermogonica etiam; spermatia plus minusve valide botuliformia, utrinque obtusa ac 1-guttulata (3-4 × 0,5-0,8) hyalina.

Hypocreaceae DNtrs.

hyalodidymae Sacc.

233. Nectria Balansae Speg. (n. sp.)

Diag. Acervuli primo tecti, dein erumpentes, epidermide laciniatim disrupta cincti, mediocres (1-2 mllm. diam.), e convexulo-applanatis, tenues (0,5 mllm. crass.), rubro-crocei v. coccineo-aurantii, pulvere v. squamulis concoloribus v. vix obscurioribus adspersi, peritheciis minutis vix apice liberis compositi, e stromate per corticem lignumque serpente pallide croceo, exsurgentes; perithecia in pulvinulis stromatis immersa non v. vix prominula, e globoso ovoidea (200-250), tenui membranacea, contextu indistincto, fulvello, ostiolo vix mammillato-prominulo subnigricante; asci cylindraceo-clavati (110-120×15-16), non v. vix pedicellati, aparaphysati, octospori; sporae hyalinae, alterne distichae, ellipticae v. elliptico-elongatae (22-30 × 8-10), non v. vix inaequilaterales, utrinque plus minusve acute rotundatae, medio 1-septatae, non constrictae, loculis primo granulosis, dein grosse 1-guttulatis, episporio longitudinaliter tenuissime densiusculeque striato.

Hab. Ad corticem arborum dejectarum putrescentium in sylvis prope *Paraguarí*, Jun. 1883 (sub num. 3873).

234. Nectria coccorum Speg. (n. sp.)

Diag. Perithecia globosa, minuta (180-200 diam.), laevia, glabra, aurantia v. aurantio-rosea, solitaria v. laxe 2-5-aggregata, stromate tenui vix manifesto, matricem obtegente concolore semiimmersa, ostiolo minuto vix fuscidulo et papillulato donata, carnosulo-submembranacea, contextu dense parenchymatico, flavescenti-aurantio, ad ostiolum fuscescente praedita; asci cylin-

draceo-clavati, aparaphysati, octospori, mox diffluentes; sporae cylindraceo-fusoideae v. elliptico-elongatae, utrinque obtuse acutatae (22-25×5) medio 1-septatae non v. leniter constrictae, loculis grosse 1-guttulatis, hyalinae. An postremo 3-septatae?

Hab. Ad *Coccos* emortuos putrescentes in foliis dejectis putrescentibus *Laurineae* cujusdam in sylvis montanis de *Peribebuy*, Jul. 1883 (sub num. 3867).

235. NECTRIA GUARAPIENSIS Speg. (n. sp.)

Diag. Stroma cortice innatum, latissime ac plus minusve profunde serpens, sordide e roseo lateritio; perithecia in stromatis v. matricis mutatae superficie densissime gregaria, acervulos plus minusve pulvinatos (1-3 mllm. diam. — 0,5 mllm. crass) rugoso-rimulosos, discretos v. confluentes v. plagulas effusas scruposo-undulatas (5-25 mllm. diam.) efficientia, uda globosa v. globoso-depressa (300-350 diam.), pallide fulva, glabra, laevia, sicca cupulato-collapsa, rugulosa, membranaceo-carnosula, contextu pergrosse parenchymatico-celluloso (cellulis 15 diam.), fulvo-lateritio, ostiolo minute papillato, pallescente, subfimbriatulo, prosenchymatico–subhyalino donata; asci clavulati, antice truncato-rotundati, postice breviter crasseque attenuato-stipitati (55-65 × 10-14), aparaphysati, octospori; sporae distichae v. submonostichae, ellipticae v. obovatae, utrinque late rotundatae (14 × 7), medio 1-septatae, non v. vix constrictae, loculis 1-guttulatis v. granulosis, subaequalibus, hyalinae, laeves.

Hab. Ad truncorum cortices putrescentes in sylvis prope *Guarapí*, 1879 (sub num. 2758).

236. NECTRIA HEMATOCHROMA Speg. = Fung. Arg. pug. IV, n. 196.

Hab. Ad corticem putrescentem in sylvis montanis *del Cerro Leon*, 23 Jun. 1881 (sub num. 3413).

Obs. Perithecia globosa, nonnihil majora (220-280), lateritio-rubra, minutissime rugulosa, contextu grosse parenchymatico rubro; asci cylindraceo-subclavati, apice truncatuli, basi breviter attenuato-stipitati (85-90 × 10-15), octospori, aparaphysati; sporae ellipticae, monostichae v. distichae, utrinque plus minusve acute v. obtuse rotundatae (13-15 × 6–7), medio 1-septatae, non constrictae, hyalinae, episporio densiuscule longitudinaliter striatae.

Forma guaranitica pluribus characteribus a typo recedit, praecipue magnitudine partium; an nova species? an varietas tantum?

237. NECTRIA CINNABARINA (Tode) Fr.=*Sacc.* Syll. Fung. I, n. 4662.

Hab. Ad cortices ramorum putrescentium in sylvis prope *Guarapí*, Jul. 1884 (sub num. 2757).

Obs. Perithecia in pulvinulos hemisphaericos v. irregulares (1-3 mllm. diam. — 0,5-1 mllm. crass.) conferta, globulosa (300-350 diam.), parum prominula, extus lateritio-cinnabarina, intus flavescentia, carnosula, contextu densissime minutissimeque parenchymatico, purpureo-lateritio. laevia, glabra, ostiolo vix papillulato, quandoque fuscescente; asci subcylindracei, antice obtusi, postice brevissime subcoarctato-stipitati (60-65×10-12), aparaphysati, octospori; sporae recte v. oblique distichae, ellipticae (12-15 × 5-5,5), rectae v. inaequilaterales, utrinque obtusae, medio 1-septatae non constrictae, hyalinae. An postremo 3-septatae? Forma guaranitica satis a typo recedit, mihi tamen separanda non videtur.

238. NECTRIA PARAGUAYENSIS Speg. (n. sp.)

Diag. Acervuli hemisphaerico-pulvinati, superne depressuli, inferne leniter coarctati (1-2 mllm. diam. — 0,5 mllm. crass.), compacti, sordide lateritii, obsolete minuteque fusco-punctulati, vix granulosi, glabri, intus gilvi; perithecia elliptico-obovata in acervulorum stromate periphaerice immersa, vix prominula, disco libero, applanatulo, medio ostiolo minute papillulato, fusco ornata (150 diam. — 200 alt.), carnosula, contextu subindistincto, vivide fulvo-melleo; asci cylindraceo-subclavati, mox diffluentes, octospori; sporae ellipticae v. elliptico-elongatae (14-18 × 5-7), primo 2-4-blastes dein medio 1-septatae, constrictae, loculis 1-2-guttulatis, hyalinae, episporio longitudinaliter striato.

Hab. Ad corticem ramorum putrescentium in dumetis *Cerro Hu*, 17 Jan. 1882 (sub num. 3420).

Obs. Species primo obtutu pro *N. vulgari* Speg. facillime sumenda, sed satis ab illa abhorrens.

239. NECTRIA VAGABUNDA Speg. (n. sp.)

Diag. Perithecia epiphylla, sparsa, solitaria v. 2-5-aggregata,

hypothallo candido, furfuraceo-v. velutino-tomentosulo insidentia basique vestita, sicca cupulato-collapsa, uda globulosa (150-350 diam.), ex albo aurantiaca, laevia, glabra v. puberula, tenuissime ceraceo-membranacea, contextu indistincto; asci clavati, antice rotundati, postice breviter crasseque stipitati (50-55 × 15), paraphysibus densis, filiformibus, simplicibus obvallati, octospori; sporae distichae v. inordinate polystichae, ellipticae, utrinque obtusiusculae (12×4,5), medio 1-septatae, constrictae, hyalinae. Jodi ope nulla.

Hab. Ad folia viva *Bambusaceae* cujusdam in *Pastoreo de Caáguazú*, Jan. 1882 (sub num. 3445).

Obs. Species pulchella, mox dignoscenda, ac novi generis (*Lasionectria* Speg.) facillime typum sistens.

240. NECTRIA EPICHLOE Speg. (n. sp.)

Diag. Perithecia matrice saepius infuscata (macula effusa, brunnea, non determinata) insidentia, hypothallo furfuraceo-pruinuloso, candido donata, densissime subcrustaceo-aggregata, pallide aurantiaca v. fulvo-mellea, sicca subcupulato-collapsa, ruga transversa prominula percursa, uda globosa (80-120 diam.), glabra, laevia, carnosula, contextu minutissime ac indistincte parenchymatico-celluloso, fulvello; asci fusoideo v. cylindraceo-clavati, apice truncati, crassiusculeque tunicati, deorsum modice attenuato-stipitati (50-55 × 7-8), paraphysibus paucis, filiformibus simplicibus obvallati, octospori; sporae ellipticae v. elliptico-ovoideae, utrinque acute rotundatae (9-11 × 3-4), primo continuae, dein medio 1-septatae, non constrictae, loculis non v. guttulatis, hyalinae.

Hab. Ad vaginas ac folia viva *Andropogonis* species cujusdam in pratis prope *Guarapí*, Dic. 1882 (sub num. 3432).

Obs. Species pulcherrima distinctissima, habitu *Epichloëm typhinam* (Pers.) Tul. perfecte aemulans, characteribus fructificationis tamen mox distinguenda, facile, ut praecedens, in novo genere constituenda.

241. HYPOCREA RUFA (Pers.) Fr.

var. SUBLATERITIA Sacc. = Mich. I, p. 301.

Hab. Ad corticem nec non ad ligna uda putrescentia in uliginosis sylvarum prope *Guarapí*, per ann. 1880-81 (sub num. 2766-2777).

Obs. Stromata quandoque parvula (1-2 mllm. diam.), sparsa regulariter hemisphaerico-lenticularia, quandoque majora (5–8 mllm. diam.) irregulariter discoideo applanata, ruguloso-undulata, margine repandula, glabra, fuscescenti-lateritia; perithecia periphaerica, globulosa (150-180 diam.); asci cylindracei, apice rotundato-truncati, basi breviter crasseque stipitati (50-55 × 3), aparaphysati, octospori; sporae recte monostichae didymae, loculis mox secedentibus globosis v. globoso-cuboideis (2,5-3 diam.), non v. grosse 1-guttulatis, hyalinis.

PHRAGMOSPOREAE Sacc.

242. CALONECTRIA LEUCORRHODINA (Mntg.) Speg. = *Sacc.* Syll. Fung. I, n. 4955.

Hab. Ad folia viva plurimarum arborum in sylvis prope *Caá-guazú*, *Guarapí*, *Paraguarí*, vulgata per annis 1881-83 (sub num. 2729, 3504, 3795.)

Obs. Epiphylla; perithecia sicca cupulato-collapsa, ruga transversa prominula percursa, uda globulosa (80-160 diam.), hypothallo arachnoideo, furfuraceo, candido, radiante insidentia; asci elliptico-elongati v. obclavati (28-40 × 5-8), aparaphysati, octospori; sporae oblique distichae, fusoideae v. fusoideo-clavulatae, utrinque subtruncato-rotundatae (10-14 × 2-2,5), hyalinae, 3 septatae.

243. CALONECTRIA LEUCORRHODINA (Mntg.) Speg.

Var. MINOR.

Diag. Perithecia laxissime aggregata, sicca cupulato-collapsa, uda globoso-lenticularia (50-70 diam.), vix papillulato-ostiolata, dilute aurantiaca v. rosea, glabra, laevia v. vix pruinulosa, tenuissime membranacea, contextu densissimo, carnosulo-indistincto, subhyalino, hyphotallo furfuraceo v. arachnoideo, in *Meliolarum* subiculo, parasitico insidentia; asci fusoideo subclavulati, antice obtuse rotundati, postice brevē crasseque stipitati (40 × 7), aparaphysati, octospori; sporae oblique distichae, subfusoideae (11-12 × 3) v. cylindraceo-clavulatae, utrinque obtusiusculae, medio 1-septatae, leniter constrictae, primo 6 guttulatae, dein tenuiter 5-7 septatae, non constrictae.

Hab. Ad folia viva *Aurantiaceae* cujusdam prope *Guarapí*, Jul. 1883 (sub num. 3781).

244. Calonectria guarapiensis Speg. (n. sp.)

Diag. Perithecia hypophylla, densiuscule aggregata, globulosa (80-100 diam.), succinea, pilis brevissimis simplicibus (20-30 × 2) hyalinis laxissime ornata, ostiolo vix prominulo subfuscidulo, subfimbriato donata, contextu dense subindistincteque parenchymatico-sinuoso fulvello, in hypothallo arachnoideo-furfurello, radiatim expanso (2-6 mllm. diam.), matrici arcte adnato, periphaerice candido, centro fulvescente insidentia; asci fusoideo-cylindracei, antice truncato-rotundati, postice breviter attenuato-stipitati (38-42 × 5-7), aparaphysati, octospori; sporae distichae, fusoideae v. cylindraceo-fusoideae, rectae v. saepius inaequilaterales, utrinque obtusatae (8-10 × 2-2,5), medio 1-septatae, non constrictae, hyalinae, loculis primo 2-guttulatis, dein 1-septatis, non constrictis.

Hab. Ad folia viva v. languida *Sapindaceae* species cujusdam in sylvis prope *Guarapi*, Jul. 1883 (sub num. 3781).

Obs. Cum peritheciis ascophoris adsunt perithecia spermogonica, quae inter fungos imperfectos describentur.

245. Calonectria ambigua Speg. = *Sacc.* Syll. Fung. I, n. 4943.

Hab. Ad folia viva *Sapindaceae* species cujusdam in sylvis subvirgineis prope *Guarapi*, 1883 (sub num. 3794-3796).

Obs. Specimina guaranitica cum brasiliensibus perfecte congruunt.

246. Calonectria melioloides Speg. (n. sp.)

Diag. Epiphylla; mycelium orbiculariter expansum (2-5 mllm. diam.), tenue, arachnoideo-velutinum, sordide albescens v. album, ambitu effuso-evanescens, ex hyphis gracilibus, (3-4 crass.), hyalinis, repentibus, dense ramoso-intricatis, matrice arcte adnatis efformatum, centro hyphis piliformibus erectis, subcrassiusculis (300-400 × 7-8), concoloribus, dense septatis, apice obtusis ornatum; perithecia centro laxe aggregata, sicca contracto-rugulosa, uda globuloso-depressa (200-250 diam.), subsuccinea, laevia, glabra v. hyphis paucis repentibus v. brevissime erectis donata, tenui membranacea, contextu indistincto, e hyalino fulvello; asci obclavati sursum longe attenuati apice rotundati, crasse tunicati deorsum subcoarctati brevissime noduloseque stipitati (105-120 × 14-15), aparaphysati, octospori; sporae in ascorum parte infera oblique distichae, fusoideo-cla-

vulatae, utrinque obtusiusculae (30–35 × 7), 5-septatae, ad septa non constrictae, hyalinae,

Hab. Ad folia viva *Myrtaceae* cujusdam in sylvis prope *Guarapi*, Jun. 1881 (sub num. 2744).

Obs. Species praecedenti primo obtutu simillima, sub microscopio tamen mox distinguenda.

247. CALONECTRIA? GUARANITICA Speg. (n. sp.)

Diag. Acervuli epiphylli superficiales, minuti (0,5-1 mllm. diam.), suborbicularibus v. ellipticis, modice pulvinati, basi coarctatuli, sparsi, in folio irregulariter longitudinaliterque subseriati, sordide fusco-v. rubescenti-atri, glabri, ruguloso–scrupulosi; perithecia globulosa in acervulorum stromate immersa, plus minusve prominula, globulosa (300-350 diam.) non v. vix papillato v. mammillato-ostiolata, membranaceo-carnosula, mollia, roseo–v. carneo-succinea, contextu fusco-fuligineo v. fulvescente; asci cylindracei utrinque leniter attenuati, antice rotundati, basi breviter stipitati (80-85 × 12-14), paraphysibus filiformibus, tenuibus, dense obvallati, octospori; sporae recte distichae, elliptico-elongatae, inaequilaterales v. allantoideae, utrinque obtuse rotundatae (25-28 × 6 6,5), 3-septatae, ad septa non constrictae, loculis guttulatis, hyalinae.

Hab. Ad folia viva *Bambusaceae* cujusdam in uliginosis sylvae *Naranjo*, 24 Maj. 1883 (sub num. 3828).

Obs. Species praedistincta a Nectriaceis nonnihil recedens, et generi *Calonectriae* perdubie adscripta. An melius *Broomella?*

248. PARANECTRIA? ALBO-LANATA Speg. (n. sp.)

Diag. Acervuli amphigeni, lineari-elliptici, minuti (0,5-1,5 mllm. long.), modice pulvinati, basi non coarctati, dilutissime carneo-ferruginei v. subrubiginosi, saepius macula pallescente v. fuscescente plus minusve effusa, indeterminata insidentes, granuloso-papillulosi, superne villo densiusculo candido, e pilis erectis, rectis v. undulatis, longiusculis, tenuibus (200-450 × 2-5), hyalinis, parce septatis, simplicibus composito vestiti; perithecia in acervulorum ambitu constipata, monosticha, prominula, villo abscondita, globulosa (150-200 diam.), glabra, laevia, ostiolo vix manifesto impresso-pertusa, subyalina v. pallescenti-ceracea, tenui membranacea, contextu delicatissimo,

parum distincto, hyalino; asci cylindracei v. cylindraceo-subclavulati, antice obtuse rotundati, crasseque tunicati, luce refracta 1-foveolati, postice leniter attenuati basique in pedicello brevissimo, crassiusculo abrupte productae (75-80×18-20), aparaphysati, octospori; sporae oblique distichae, ellipticae v. fusoideo-ellipticae (28-32 × 10-12), triseptatae, ad septa leniter constrictae, utrinque appendice cylindracea apice saepius rotundato-incrassatula (an loculis extimis?), recta (5-7×1,5-2) ornatae, rectae v. leniter inaequilaterales, hyalinae.

Hab. Ad folia viva *Bambusaceae* cujusdan in sylvis uliginosis prope *Peribebuy*, 24 Maj. 1883 (sub num. 3832).

Obs. Species mox dignoscenda, pulchella, a genere monnihil recedens sporis non sigmoideis.

249. Broomeella Munkii Speg. (n. sp.)

Diag. Maculae nullae v. epiphyllae, parum manifestae, minutae (1-2 mllm. diam.) cinerascenti-arescentes, subdeterminatae, areola plus minusve effusa, obscuriore cinctae; stromata hypophylla, superficialia, densiuscule sparsa, orbicularia, minuta (0,5-2 mllm. diam.), pulvinato-applanata v. lenticularia, margine obtuse rotundata, basi non v. vix coarctatula, matrici arcte adnata, minutissime furfuraceo-squarrulosa, laxissime papillulosa, obsolete nigripunctata, extus intusque cinerascentia v. fuscescenti-grisea; perithecia stromate immersa, globoso-obovata (120-200 diam.), dense stipata, tenuissime membranacea, fuscidula vix a stromate distincta, contextu indistincto, albo-farcta, ostiolo mammillato, nigricante, subcarbonaceo, in stromatis superficie prominulo non v. leniter exerto donata; asci e basi perithecii fasciculatim exsurgentes, cylindracei (85-100 × 10), apice obtuse rotundati, crasse tunicati, luce refracta 1-foveolati, basi plus minusve longe attenuato-pedicellati, paraphysibus parcis, crassiuscule filiformibus obvallati, octospori; sporae hyalinae, recte v. oblique monostichae, ellipticae (13-15×5-6,5), utrinque obtuse rotundatae, 2-septatae, ad septa non v. vix constrictae, septis a centro remotis, loculis densiuscule guttulatis, medio caeteris duplo longiore saepiusque tumidiore.

Hab. Ad folia viva *Bignoniae* species cujusdam in dumetis prope *Guarapi*, Jul. 1883 (sub num. 3743-3850). 4273

Obs. Species pulcherrima inter Hypocreaceas et Dothideaceas

nutans; primis adscripta facie externa; specimina, quae adsunt, adhuc immatura, facile hyemali tempore tantum maturescentia; ostioli quandoque solitarii, quandoque 2-3-fasciculati; sporae rarius 20 longitudine.

DICTYOSPOREAE Sacc.

250. PLEONECTRIA GUARANITICA Speg. (n. sp.)

Diag. Acervuli majusculi (3-15 mllm. diam.), crasse pulvinati (2-5 mllm.), sparsi v. confluentes, repando v. gyroso-sinuosi, matrice immutata arcte adnato-superficiales, densissime granulosi, udi carnosuli, sicci duri, extus sordide griseo-lateritii, intus ligneo-fuscescentes; perithecia carnosulo-coriacella, in pulvinulis periphaerica, densissime constipata, ad tertium superum v. ultra prominula, globosa (300-350 diam.), glabra, laevia, ostiolo non mammillato, non v. vix acutatulo, saepius fuscescente donata, contextu subimperspicuo, densissimo ac minutissimo, aurantio-fulvo; asci cylindracei v. cylindraceo-clavati, apice truncato-rotundati, deorsum longe attenuato-pedicellati (p. sp. 40-55×8-12=ped. 35-40×2-3), paraphysibus crassiuscule filiformibus guttulatis parcissimis immixti, octospori; sporae globoso ellipticae, utrinque obtusissime rotundatae (8-11×6-7), primo cribrose guttulatae, dein densissime sed obscure muraliter cellulosae, hyalinae.

Hab. Ad cortices truncorum putrescentium in sylvis uliginosis prope *Guarapi*, 2 Aug. 1881 (sub num. 2759).

SCOLECOSPORAE Sacc.

251. OPHIONECTRIA TROPICALIS Speg. (n. sp.)

Diag. Perithecia hypophylla, sparsa, globosa, minuta (100-180 diam.), in sicco subsuccinea, ruguloso-contracta, uda globosa, e hyalino opaca, subiculo parcissimo vix manifesto tenuissimo arachnoideo-reticulato insidentia, glabra, laevia, ostiolo minuto vix impresso, tenuissime membranacea, contextu parenchymatico, sinuosulo-anguloso, e hyalino fulvescente; asci fasciculatim e basi peritheciorum exsurgentes, cylindracei, non v. vix fusoidei apice late rotundati, basi attenuati (75-80×9-10), minute brevissimeque stipitati, aparaphysati, octospori; sporae acicu-

lares v. filiformes (50×2,5), 5-10-septatae, utrinque obtusae, in ascis longitudinales, apice recte fasciculatae, basi tortae.

Hab. Ad folia viva *Blechni* species cujusdam, socia *Uredinea* depauperata, in sylvis prope *Mbatobí*, Jul. 1883 (sub num. 3882).

MICRONECTRIA Speg. (n. gen.)

Diag. Perithecia simplicia, epidermide tecta, contextu molli, nectriaceo. Asci octospori; sporae filiformes plus minusve manifeste septatae. Est *Ophionectria* peritheciis tectis (non superficialibus) donata.

252. MICRONECTRIA GUARANITICA Speg. (n. sp.)

Diag. Maculae nullae; perithecia sparsa v. hinc inde laxissime aggregata, rarissime 2-3-coespitosa, hypodermica, primo tecta, dein erumpenti-prominula, epidermide laciniatim minute fissa cincta, globulosa (150-200 diam.), fulvo-mellea, glabra, ostiolo vix papillato ac visibili donata, membranaceo-carnosula, contextu minutissime parenchymatico subindistincto, dilute fulvo v. melleo-fuligineo; asci cylindracei (125-150×4-4,5), utrinque leniter attenuati, apice truncati v. rotundato-truncati, luce refracta 1-foveolati, postice brevissime stipitati, aparaphysati, octospori; sporae filiformes, ascorum longitudine, tenuissimae (0,6-0,8 crass.), plus minusve manifeste septatae, hyalinae.

Hab. Ad folia dejecta putrescentia *Luheae divaricatae* Mart. in nemorosis prope *Guarapí*, Nov. 1881 (sub num. 3427).

BALANSIA Speg. (n. gen.)

Diag. Stromata stipitato-capitata, extus atra, intus pallescentia, in matrice fere sclerotiacea, nigrefacta dense gregaria; perithecia in capitulis stromatis periphaerica; asci cylindracei, aparaphysati, octospori; sporae filiformes ascorum longitudine, hyalinae.

Obs. Genus singulare, in spicis graminacearum viventium vigens, *Clavicipiti* Tul. peraffine, ab eo tamen satis recedens.

253. BALANSIA CLAVICEPS Speg. (n. sp.)

Diag. Spicae ad rachidem reductae; rachides incrassatulae, longitudinem normalem superantes (15-20 cent. long.=2-4 mllm. crass.), intus albae, lignoso-fibrosae, durae, extus fusco-atrae v. atrae, laeves, barbulis denudatae, ac, spicularum loco, stromata gerentes; stromata hemisphaerica v. globulosa (1,5-3 mllm.

diam.), stipite plus minusve abbreviato (0,5-3 mllm. long.), crassiusculo (1-1,5 mllm. crass.) insidentes, intus albo-fuscescentes, sub lignoso-carnosulae, duriusculae, extus atrae, glabrae, laeves, vix sub lente valida densissime minuteque granuloso-punctulatae; perithecia sub cortice in stromatum capitulis periphaerica, densissime constipata, a substantia vix distincta, obovata (200-220 alt.—120-140 diam.), ostiolo perforato, superficem stromatis vix attingente donata; asci cylindracei, apice rotundati, tunica valde incrassata, basi leniter attenuati, brevissime rotundati (150-160×5-6), aparaphysati, octospori, e fundo peritheciorum fasciculatim exsurgentes; sporae filiformes, fasciculatae, longitudine ascorum, tenues (0,6-0,8 crass.), densiuscule ac parum manifeste septatae, hyalinae.

Hab. Ad spicas evolutas *Setariae* v. *Penniseti* species cujusdam in dumetis ripariis fluminis *Pirayú*, 1879 (sub num. 2755).

Obs. Species pulcherrima habitu fere *Sclerotii clavi* DC., formam giganteam, clavulis ascigeris confertissimis ornatam, simulans; rachide spicarum vix deformata, barbulis amissis, spiculis in capitulis stromaticis mutatis. Ob perithecia parum a stromatis substantia distincta ad Dothideaceas nonnihil vergens.

254. **Cordyceps unilateralis** (Tul.) Sacc.=Syll. Fung. II, n. 5027.

Hab. In *Formicae* emortuae specie majore ad ramos *Eugeniae* in sylvis montanis *Cerro S. Thomas*, 15 Dec. 1882 (sub num. 3759).

Obs. Stipite ex parte dorsale articuli toracici exsurgente, contra corpus producto, gracile (10-12 mllm. — 0.5 mllm. crass.), rufescente, adpresse velutino-furfuraceo, udo terete, sicco compressulo ac subtorto; capitulis hemisphaericis v. hemisphaerico-elongatulis, lateraliter stipite adnato-amplectentibus, solitariis v. 2-3 aggregato-alternis, ochraceis v. fusco-rufescentibus, granulosis, glabris; peritheciis periphaericis, dense constipatis, obovatis, non v. vix prominulis, ostiolo vix papillulato, immaturis; ascis sporisque desideratis.

Specimina guaranitica cum iconibus Tulasnei perfecte habitu externo congruunt, et vix a descriptione recedunt stipite subflaccidulo ac minute furfuraceo-velutino. *Cordyceps australis* Speg., Fung. Arg.. pug. IV. n. 208, longe abhorrens nec quidem comparandus.

255. **Epichloe? nigricans** Speg. (n. sp.)

Diag. Stromata partem breviusculam (5-10 mllm. long.), sub nodis culmorum, infectantia, non v. vix eam tumefacientia sed nigrificantia tenuia (250-300 crass.), in juventute molliuscula intus alba, in senectute subcrustaceo-fragilia, intus fuscescentia, laevia; perithecia (an loculi?) stromate immersa, densissime constipata elliptico-ovata, basi saepius truncata, minuta (140-150 alt. × 50-80 crass.), ostiolo perforato stromatis superficem vix attingente donata; asci cylindracei v. subfusoideo-cylindracei, antice rotundati, crassissimeque tunicati, luce refracta bifoveolati, postice attenuati ac breviter pedicellati (p. sp. 90-100 × 4-5 = ped. 15-20 × 1-2) aparaphysati, octospori; sporae fasciculatae, filiformes (70-80 × 0,6-0,8), laxe septulatae, rectae, hyalinae.

Hab. Ad culmos vivos *Graminaceae* minoris cujusdam in pratis prope *Guarapí*, Jan. 1883 (sub num. 3741).

Obs. Species pulchella et facile ad Dothideaceas transferenda, a *E. strangulante* Mntg., ut videtur, satis recedens.

Inter perithecia ascigera adsunt nonnulla spermatioforas, omnia simillima; spermatia fusoideo-clavulata, utrinque attenuata, apice truncato-rotundata, basi elongato-acutata, subinaequilateralia (15-20 × 1-1,5), non v. pluriguttulata, hyalina, in sterigmatibus fusoideis (7-8 × 1), utrinque attenuato truncatis, exsurgentia.

256. HYPOCREELLA? GUARANITICA Speg. (n. sp.)

Diag. Stromata hypophylla, globosa (1,5-2,5 mllm. diam.), densiuscule gregaria rarius confluentia, superficialia, minute laxeque papillulosa v. granulosa, glabra, extus fusco-ferruginea v. fusco-atra, intus albo-fuscescentia, viva carnosula, sicca dura; perithecia in stromate periphaerica globosa v. elliptica (150-180 diam.), laxe constipata, parum a substantia stromatica distincta, ostiolo perforato stromatis superficiem attingente ac minute papillato-prominulo donata; asci cylindracei v. subfusoideo-cylindracei, apice crassissime tunicati, luce refracta 1-foveolati, basi breviter crasseque attenuato-pedicellati (130-150 × 5-7), octospori, aparaphysati; sporae fasciculatae, ascorum longitudine, filiformes, mox in articulis (3-7 × 1), utrinque truncatis, grosse 2-4 guttulatis secedentes.

Hab. Ad folia viva *Euforbiaceae* (*Colliguaja* spec.) in sylvis subvirgineis prope *Villa-Rica*, Feb. 1882 (sub num. 3546).

Obs. Species pulcherrima ed ad Dothideaceas vergens; stromata in foliis dejectis maturantia, sed facillime a matrice secedentia.

DOTHIDEACEAE Nitż. et Fuk.

HYALOSPORAE Sacc.

257. BOTRYOSPHAERIA BERENGERIANA DNtrs. = *Sacc.*, Syll. Fung. I, n. 1763.

Hab. Ad corticem ramorum putrescentium *Populi* v. *Salicis* in uliginosis prope *Paraguarí*, Jul. 1883 (sub num. 3872).

Obs. Stromata minuta dense gregaria, subseriatim ac irregulariter rimose erumpentia, atra, contextu majuscule parenchymatico, parum distincto saepeque opaco, fumoso-olivaceo v. atro; perithecia (an melius loculi?) non v. dubiose a stromatis substantia distincta, globulosa (150 diam.), ostiolo carbonaceo, stroma perforante non v. vix papillato-donata; asci torulosoclavati, antice rotundati, postice plus minusve attenuato-pedicellati (65-70×15-16), aparaphysati, octospori; sporae distichae, ellipticae v. subellipticae, utrinque plus minusve obtusatae (19-22×10-11), 2-guttulatae v. granuloso-farctae, hyalinae.

Specimina guaranitica vere Dothideacea nec Sphaeriacea, ut europea, habitu externo tamen atque characteribus fructificationis perfecte congruentia. An novum genus et species? an varietas v. forma tantum?

SCIRRHIELLA Speg. (n. gen.)

Diag. Stroma epidermide tectum, lineare, rimose erumpens, extus atrum, intus subceraceum, fuscum; loculi (an perithecia?) tunica in juventute cum stromatis substantia continua, dein superne carbonacea, atra, continua, inferne membranacea, tenui, discreta ac distincta; asci cylindraceo-clavati, octospori, paraphysati; sporae elliptico-clavatae, inferne subattenuato-curvatae, simplices, hyalinae.

Obs. Genus singulare inter Dothideaceas et Nectriaceas nutans; sporis generi *Apiosporae* Sacc. etiam peraffine, ab omnibus tamen satis recedens.

258. Scirrhiella curvispora Speg. (n. sp.)

Diag. Stromata linearia (1-6 mllm. long. = 0,5-0,7 crass.) tecta, sub seriata, rimose erumpentia, non exerta, extus atra, glabra, rugulosa, intus ceraceo-fusca, per aetatem saepe cava; loculi (perithecia?) dense constipati, tunica primo tota cum stromatis substantia continua, dein superne continua, atra, carbonacea, inferne discreta membranacea, tenui, majuscule parenchymatica, olivacea, globoso-depressi (200-300 diam. × 150-200 alt.), e mutua pressione angulosi, ostiolo minuto, parum perspicuo, stroma perforante sed non exerto donata; asci cylindraceo-clavati v. toruloso-cylindracei, antice rotundati, postice breve crasseque stipitati (100-105 × 25-28), crasse tunicati, octospori, muco granuloso ac paraphysibus crassis, septulatis, densis, subfluxilibus obvallati; sporae distichae, elliptico-elongatae, sursum rotundatae ac non v. vix acutatae, deorsum leniter attenuatae, rotundato-acutatae, abruptiusculae e latere incurvatae (40-42 × 10-11), pergrosse 1-guttulatae, hyalinae.

Hab. Ad culmos dejectos putrescentes *Bambusaceae* cujusdam in sylvis prope *Carapeguá*, 24 Jul. 1883 (sub num. 3823).

259. Phillachora amphigena Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae (2-10 mllm. diam.) pallescentes v. fuscescentes indeterminatae, epiphyllae v. rarius amphigenae; stromata minutula, e globoso lenticularia (150-200 diam.), densiuscule gregaria, suborbiculariter in maculis disposita, in matrice utrinque prominula, laevia, glabra, atra, nitentia, coriaceo-subcarbonacea, opaca, contextu indistincto; loculi solitari v. rarius bini in quoque stromate, ostiolo latiuscule hyante epiphyllum spectante donati; asci subclavati v. obclavatuli, antice rotundati v. subtruncatuli, postice brevissime crasseque pedicellati (50-60 × 12-16), subcrassiuscule tunicati, octospori, paraphysibus raris, filiformibus, guttulatis, obvallati; sporae distichae v. subtristichae, ellipticae, utrinque obtusatae (16-19 × 6-8), inaequilaterales v. subcymbaeformes, non v. grosse 1-guttulatae, hyalinae.

Hab. Ad folia viva *Bignoniae* species cujusdam in dumetis prope *Guarapí* et *Paraguarí* per ann. 1881-83 (sub num. 2719-3852).

260. Phyllachora Balansae Speg. (n. sp.)

Diag. Maculae majusculae (5-20 mllm. diam.) expallentes, saepe

confluentes, indeterminatae; stromata matrici innata parvula, globulosa (120-250 diam.), in maculis irregulariter suborbiculatim disposita, densiuscule aggregata, non v. rarius 2-3-confluentia, utrinque prominulo-exerta, superne subpapillulata, laevia, glabra, atra, nitentia, coriaceo-carbonacea, opaca, contextu indistincto; loculi solitarii in quoque stromate, nucleo albo-farcti, ad epiphyllum ostiolo minuto non v. vix prominulo donati; asci cylindracei v. obclavato-cylindracei (rarissime saccato-clavati (50×14) cum sporis transverse distichis), antice obtuse rotundati, postice breviter crasseque pedicellati (55-60×10-12), octospori, paraphysibus filiformibus, guttulatis densiuscule obvallati; sporae transverse rarius oblique monostichae, ellipticae, utrinque obtusissime rotundatae (8-10×6-7), episporio tenui, protoplasmate saepe granuloso donatae, non v. 1-3 guttulatae, hyalinae.

Hab. Ad folia viva *Cedrelae brasiliensis* in sylvis subvirgineis prope *Guarapí* per ann. 1881-83 (sub num. 2737-3853).

Obs. Species habitu praecedenti simillima, notis tamen fructificationis rite distincta.

261. PHILLACHORA TRAGIAE (B. et C.) *Sacc.*=Syll. Fung. II, n. 5128.

Hab. Ad folia viva *Acalyphae* et *Crotonis* arborei specierum quarumdam in sylvis prope *Paraguarí* et *Peribebuy* per ann. 1881-83 (sub num. 2744-3773).

Obs. Maculae nullae v. folium totum vix expallens; stromata parvula, globosa v. globoso-lenticularia (200-450 diam.) per totum folium densiuscule sparsa, rarissime confluentia, amphigena, saepe utrinque prominula, laevia, glabra, atra, nitentia, coriaceo-subcarbonacea, opaca, contextu indistincto; loculi solitarii v. saepius bini v. terni in quoque stromate (80-100 diam.), e mutua pressione angulosi v. difformes, nucleo-albo farcti, ostiolo epiphyllo rarius hypophyllo latiusculo ornati; asci cylindracei v. cylindraceo-obclavati, antice obtusissime rotundati, postice subcoarctati, brevissime crasseque stipitati (60-70×7-12), paraphysibus filiformibus, densissimis obvallati, octospori; sporae ellipticae, utrinque obtusissime rotundatae fere subtruncatae (10-12×5-8), granuloso-farctae, hyalinae.

In forma *Acalyphae* stromata magis exerta, asci vere cylin-

dracei (60-65×7-10); sporae utrinque minus rotundatae ac nonnihil minores (10×5-6), oblique monostichae.

In forma *Crotonis* stromata matrice semiimmersa, asci obclavati (60-70×12-15); sporae (11-12×7-8) transverse monostichae, duobus extimis exceptis verticalibus; asci etiam saccati, sed rarius, (40-45×20) sporis inordinatis.

262. **Phyllachora Astronii** Speg. (n. sp.)

Diag. Maculae nullae aut vix manifestae pallescentes v. fuscescentes, sparsae, indeterminatae; stromata parvula, subglobosolenticularia (200-300 diam.), in maculis 1-5 laxe aggregata, rararissime conflentia, matrici innata, utrinque prominula, laevia, glabra, atra, nitentia, coriaceo-carbonacea, opaca, contextu indistincto; loculi solitarii in quoque stromate, nucleo albo farctis, ostiolo saepius epiphyllo parvulo ornati; asci cylindracei, saepe subtorulosi, antice rotundati, postice brevissime crassissimeque attenuato-stipitati (50×20), octospori, paraphysibus filiformibus, densiusculis obvallati; sporae irregulariter distichae, extimis exceptis, ellipticae (an leniter obovatae?) utrinque obtusissime rotundatae (12-14×8-9), episporio tenuiusculo (an minute denseque punctulato?), non v. 2-guttulatae, hyalinae.

Hab. Ad folia viva *Astronii juglandifolii* Gr. in sylvis montanis de *Peribebuy*, Jul. 1883 (sub num. 3797).

263. **Phyllachora Ruprechtii** Speg. (n. sp.)

Diag. Maculae nullae aut vix manifestae, epiphyllae, fumoso-fuscescentes, indeterminatae; stromata parvula subhemisphaerico-lenticularia (350-400 diam.), in maculis irregulariter densiusculeque sparsa, non confluentia matrici semiimmersa, in epiphyllo exerta, in hypophyllo epidermide tecta et vix prominula, laevia, glabra, atra, nitentia, coriacco-subcarbonacea, opaca, contextu indistincto; loculi in stromatibus solitarii, nucleo-albo-farcti, ostiolo vix v. non papillulato donati; asci cylindracei, antice truncato-rotundati, postice breviter attenuati ac crassiuscule pedicellati (60-65×8-12), octospori, aparaphysati; sporae oblique v. transverse (extimis exceptis) monostichae, ellipticae, non v. vix ovoideae, medio non v. lenissime subattenuatae (11×6-6,5), episporio tenui, nubiloso-ruguloso? (an protoplasmate?) donatae, hyalinae.

Hab. Ad folia viva *Ruprechtiae* species cujusdam in sylvis subvirgineis prope *Paraguari*, Maj. 1883 (sub num. 3792).

264. PHYLLACHORA TARUMA Speg. (n. sp.)

Diag. Maculae epiphyllae plus minusve manifestae, expallentes v. fuscescentes, indeterminatae; stromata parvula, subglobosa v. lenticularia (300-450 diam.), in maculis irregulariter densiusculeque sparsa, saepe confluentia, matrici immersa, in hypophyllo prominulo-exerta, in epiphyllo non papillulata sed epidermide punctiformi-nigrefacta adnato-tecta, glabra, subrugulosa, atra opaca v. vix subnitentia, carbonaceo-coriacea, contextu indistincto; loculi 2-3 in quoque stromate, e mutua pressione difformes (150-200 diam.), nucleo albo-gelatinoso farcti, ostiolis discretis v. fasciculatis ad epiphyllum vergentibus donati; asci cito diffluentes, cylindracei v. cylindraceo-subclavati, apice rotundato-truncati, deorsum breviter crasseque attenuato-stipitati (65-70×10), octospori, paraphysibus filiformibus diffluentibus, densis obvallati; sporae oblique monostichae (extimis exceptis), ellipticae, utrinque rotundatae (12-14×6-7), saepe leniter inaequilaterales, hyalinae.

Hab. Ad folia viva *Viticis* (incol. *Taruma*) species cujusdam in *Asuncion del Paraguay*, Jul. 1882 (sub num. 3744).

265. PHYLLACHORA? BAMBUSINA Speg. (n. sp.)

Diag. Maculae nullae; stromata epiphylla, linearia (1-2 mllm. long. = 0.5 lat.), pulvinatula, primo tecta dein rimose dehiscentia, matrici longitudinalia, facillime scutato-dimidiata (microthyriacea), atra, glabra, rugulosa; loculi minuti (150-200 diam.) nucleo albo farcti, ostiolo parum perspicuo vix pertuso donati; asci cylindracei antice truncato-rotundati, crassiusculeque tunicati, postice attenuati, brevissime grosseque stipitati (55-60 × 7-8), octospori, paraphysibus, densissimis filiformibus obvallati; sporae oblique monostichae, ellipticae v. elliptico-clavulatae, utrinque rotundato-acutatae (12-13 × 5-5,5), 2-guttulatae, medio subconstrictulae et facile postremo 1-septatae, hyalinae.

Hab. Ad folia viva *Bambusaceae* species cujusdam in sylva *Naranjo*, 24 Maj. 1883 (sub num. 3828).

Obs. Species pulchella facile immatura et ad genus *Dothidella* Sp.

transferenda; si vera quoque Dothideacea nonnihil adhuc dubiosus maneo. Iterum inquirendum.

266. PHYLLACHORA COPAIFERAE Speg. (n. sp.)

Diag. Maculae mediocres (5–6 mllm. diam.), expallentes, indeterminatae; stromata matrice innata dense aggregata saepe leniter 2-5-confluentia, totam maculam occupantes, epiphylla v. subamphigena ad hypophyllum non v. vix prominula epidermide macula nigra notata adnato-tecta, e globoso-lenticularia (250-400 diam.), glabra, atra, nitentia, coriaceo-subcarbonacea, contextu indistincto, opaco; loculi solitarii v. 2-3 in quoque stromate globulosi v. e mutua pressione difformes (200-300 diam.), nucleo albo farcti, ostiolo in stromate vix v. non papillulato donati; asci cylindracei, antice truncato-rotundati postice brevissime crasseque attenuato–stipitati (70–80 × 10–12) octospori, paraphysibus filiformibus septulatis, densiusculis, conspicue longioribus obvallati; sporae oblique monostichae, ellipticoinaequilaterales v. subnaviculares, utrinque subacutato-rotundatae (15-18 × 6-8), non v. 2 guttulatae, hyalinae.

Hab. Ad folia viva *Copaiferae* species cujusdam in sylvis montanis de *Peribebuy*, Jul. 1883 (sub num. 3854).

267. PHYLLACHORA ENGLERI Speg. (n. sp.)

Diag. Maculae nullae v. vix pallescentes, indeterminatae, non v. vix subbullosae; stromata densiuscule gregaria, amphigena, matrici innata, vix lenticulari-pulvinata (3-5 mllm. diam. = 0.40-0.45 mllm. crass.) irregulariter orbicularia, ambitu plus minusve obtuse anguloso-repandula, extus glabra, laevia, atra, nitentia, intus, amphigenae peritheciigera, cortice atro, medulla alba; loculi immersi, dense constipati, lenticulari-conoidei, parvuli (120-140 diam.), ostiolo minutissimo, stromatis superficiem attingente sed non exerto donati; asci cylindracei, apice truncato-rotundati, postice breviter crasseque attenuato-stipitati (56-60 × 6-7), paraphysati, octospori; sporae recte distichae, ellipticae v. elliptico-naviculares, utrinque acutiusculae (10-13 × 3-4), rectae v. curvulae, primo protoplasmate granuloso-farctae, dein grosse 2-guttulatae, hyalinae.

Hab. Ad folia viva *Spathicarpae lanceolatae* Eng. ad ripas, fluminis *S. Antonio* prope pagum Villeta, Jan. 1882 (sub num. 3746).

Obs. Specimina nonnihil immatura videntur, et facile stromata,

post foliorum delapsum, maturescentia; sporae tandem didymae (?) et species ad genus *Dothidella* transferenda.

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268. PHYLLACHORA GRAMINIS (Pers.) Fuck.
var. *Tupí* Speg.

Diag. Maculae nullae; stromata amphigena, minuta, irregulariter elliptica (0,5-1 mllm. long. = 0,2-0,4 lat.) longitudinaliter densiuscule sparsa, non raro confluentia, matrici innata, vix prominula, glabra, atra, opaca, subcarbonacea, contextu indistincto; loculi immersi, amphigeni, minuti (100-120 diam.), confertiuscule constipati, ostiolo vix manifesto donati; asci cylindracei v. cylindraceo-subclavati, antice subtruncati crasseque tunicati, postice breviter attenuati, grosseque stipitati (60-75 × 8-12), octospori, paraphysibus filiformibus, simplicibus, plus minusve densis obvallati; sporae quandoque distichae quandoque oblique v. transverse monostichae, ellipticae v. ovatae, utrinque acutiuscule rotundatae (10-12 × 5-6), primo granuloso-farctae, hyalinae.

Hab. Ad folia viva *Oplismeni*, *Paspali*, *Andropogonis* specierum quarumdam prope *Paraguarí*, *Guarapí* et *S. Thomas* p. ann. 1881-82 (sub num. 3555, 3736, 3737).

Obs. In forma *Paspali* sporae videntur strato mucoso tenui obvolutae.

269. PHYLLACHORA INTERMEDIA Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, pallescentes, indeterminatae; stromata foliicola (epi-v. hypo-phylla) v. ramulicula (1-6 mllm. diam.), in foliis bullosa, in ramulis crassiuscule pulvinata, suberumpenti-innata, scrupuloso-tuberculosa, atra, opaca, subcarnosula, contextu indistincto; loculi irregulariter subglobosi, e mutua pressione tortuoso-sinuosi, saepe confluentes, ostiolo minuto, non papillato donati, nucleo albo farcti; asci cylindraceo-subfusoidei, antice truncato-rotundati, crassissimeque tunicati, luce refracta 1-foveolati, postice attenuato-pedicellati (p. sp. 50 × 10 = ped. 20), octospori, paraphysibus filiformibus laxissime obvallati; sporae ellipticae, utrinque rotundatae v. plus minusve obtusatae (12 × 5), non v. grosse 1-guttulatae, in ascis oblique monostichae v. distichae.

Hab. Ad folia, petiolos nec non ramulos *Sapindaceae* species cujusdam in sylvis prope *Guarapí*, Sept. 1882 (sub num. 3748).

270. Phyllachora opaca Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, pallescentes; stromata plus minusve dense sparsa, irregulariter suborbicularia (0.5-2 mllm. diam.), e lenticulari applanata, matrici innata, epiphylla v. amphigena, glabra, laevia (vix sub lente validissima obscure punctulata), atra, opaca, extus atro-carbonacea, intus fusco-fuliginea, contextu indistincto; loculi densissime constipati ex ovato elliptici, minuti (100-150 diam.), nucleo albo farcti; asci fusoideo-cylindracei, antice truncati, postice breviter crasseque attenuato-stipitati (80-85 × 6-8), octospori, aparaphysati v. vix paraphysibus nonnullis filiformibus, simplicibus obvallati; sporae ellipticae, non v. vix ovoideae, utrinque plus minusve acutiuscule rotundatae (10 × 4–4,5), oblique monostichae, hyalinae.

Hab. Ad folia viva *Myrtaceae* cujusdam in sylva subvirginea *Caá-guazú*, Jan. 1882 (sub num. 3431).

271. Phyllachora? palmicola Speg. (n. sp.)

Diag. Maculae parum manifestae saepe totum folium ambientes expallentes, circa stromata saepe fuscescentes; stromata innato-immersa, tecta, vix e parenchymate tumefactulo manifesta, atra, subcarbonacea, contextu indistincto; loculi stromate immersi, globulosi (90-100 diam.), ostiolis crassis superficem epidermidis attingentibus ac leniter papillato-prominulis, laevibus matricem, supra stromate, minute ac confertiuscule atro-granuloso-punctulatam efficientibus, apice obtusis v. applanatis, perforatis donati, nucleo mucoso albo farcti; asci clavati, antice obtusati, postice attenuato-pedicellati (p. sp. 52 × 15-20 = ped. 20-25 × 5), paraphysibus filiformibus densiusculis obvallati, octospori; sporae inordinate distichae, elliptico-subcylindraceae, utrinque obtuse rotundatae (18-20 × 9), hyalinae.

Hab. Ad folia languida *Coperniciae ceriferae* in montuosis *Cerro Arro-ahí* prope *Yaguaron,* Jan. 1881 (sub num. 3558).

Obs. Species pulchella, mox dignoscenda ostiolis tantum manifestis, amphigenis, densiuscule supra stromata exertulis, subseriatis. Species haec vulgatissima etiam ad folia *Trithrinacis brasiliensis* in provincia Argentina *Chaco* a me inventa.

272. Phyllachora paraguaya Speg. (n. sp.)

Diag. Maculae nullae v. epiphyllae, parvulae (1-2 mllm. diam.)

atrae, radianti-indeterminatae, ad hypophyllum non v. vix manifestae; stromata epiphylla, leniter conoideo-lenticularia, parvula (0,3-1 mllm. diam.), densiuscule sparsa, glabra, laevia, atra, nitentia, 1 v. 2-5 locularia; loculi ovati e mutua pressione saepe angulosi (120-180 diam.), nucleo albo farcti; asci cylindracei v. obclavulati antice obtuse rotundati, crassiusculeque tunicati, postice leniter attenuati, pedicello brevi nodulosoque donati (p. sp. 50-75 × 14-18), octospori, paraphysibus densissimis, filiformibus, subdiffluentibusque obvallati; sporae di-v. tri-stichae, ellipticae, utrinque rotundatae saepeque subtruncatae (11-15 × 6-8), hyalinae, protoplasmate dense granuloso farctae v. grosse 1-guttulatae.

Hab. Ad folia viva *Luheae divaricatae* in sylvis prope *Guarapí* et *Paraguarí* p. ann. 80-83 (sub num. 2753, 3493, 3789).

273. PHYLLACHORA SINIK-LAGARAIK Speg. (n. sp.)

Diag. Maculae nullae; stromata epiphylla non v. vix ad hypophyllum manifesta, orbicularia (300-700 diam.), lenticulari-v. subconoideo-pulvinata, glabra, laevia, atra, satis nitentia, sparsa v. rarius confluentia (2-4 mllm. diam.), carbonacea, contextu indistincto; loculi 1-4 in quoque stromate, gyroso-angulosi (100-150 diam.), nucleo albo farcti; asci cylindraceo-obclavati, antice rotundato-truncati, postice breviter attenuato-pedicellati (65-72 × 12-13), paraphysibus filiformibus densis obvallati, octospori; sporae oblique v. transverse monostichae, ellipticae, utrinque rotundato-subtruncatae (11-12×7-8), granuloso- farctae, hyalinae.

Hab. Ad folia viva *Myrsinis floribundae* in dumetis prope *Guarapí*, Aug. 1881 (sub num. 2718).

Obs. Sub hoc nomine *Sinik-lagaraik* (trad. litt. *pestis nigra*) incolae barbari omnes morbos foliorum plantarum indicant.

274. PHYLLACHORA? PERIBEBUYENSIS Speg. (n. sp.)

Diag. Maculae orbiculares, densiuscule sparsae, amphigenae, subdeterminatae, centro arescenti-fulvescentes, fusco v. purpureo-areolatae (3-4 mllm. diam.); stromata hypophylla in centro macularum solitaria, rarius 2-3-aggregata, lenticularia v. globulosa, parvula (0,5-1 mllm. diam.), superne applanatula, inferne a matrice libera, vix centro subpedicellato-adnata, convexula, glabra, non v. minutissime rugulosa, atra, cortice subcarbona-

ceo, pulpa subcarnosula, olivaceo-fuliginea donata, contextu indistincte parenchymatico-celluloso; loculi in disco supero dense constipati, globulosi v. e mutua pressione angulosi (150-250 diam.), nucleo-albo farcti; asci cylindracei antice rotundati, postice longiuscule attenuato-pedicellati (p. sp. 80–90 ×9-11), octospori, paraphysibus filiformibus, simplicibus, densiusculis obvallati; sporae oblique monostichae, ellipticae, utrinque acutiuscule rotundatae (15-18 × 6-8), primo granuloso-farctae, dein grosse 1-guttulatae, hyalinae v. dilutissime olivascentes.

Hab. Ad folia viva *Melastomaceae* cujusdam in sylvis prope *Peribebuy* et *Carapeguá*, p. ann. 1879-83 (sub num. 3479, 3894).

Obs. Species ab hoc genere nonnihil desciscens et generi *Bagnisiellae* accedens, ab utroque tamen satis distincta; an novum genus? Externa facie *Phacidii* species nonnullas simulans. Jodi ope tunica ascorum vix coerulescit.

275. Phyllachora pestis-nigra Speg. (n. sp.)

Diag. Stroma parum manifestum, innatum, ramulos foliaque omnia ac tota ambiens eaque tamem vix deformans, sed intense nigrificans; loculi parenchymate immersi, vix ad epiphyllum prominuli ac perspicui, minuti, globoso-lenticulares (100-150 diam.), densiuscule sparsi, non confluentes, epidermide tecti, atri, glabri v. vix rugulosi, coriaceo-carnosuli, contextu indistincto, extus nigro, intus albo; asci clavulati v. cylindraceo-clavati, antice obtuse rotundati, postice vix attenuati, breviter crasseque pedicellati (40-50×10-12), aparaphysati, octospori; sporae distichae v. oblique monostichae, ellipticae, utrinque plus minusve acutato-rotundatae (8-10×3,5), hyalinae; an primo strato mucoso tenui obovolutae?

Hab. Ad folia viva *Malpighiaceae?* arbustivae cujusdam in dumetis prope *Guarapí*, 5 Nov. 1879 (sub num. 2728).

276. Phyllachora pulchra Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, pallescenti-fuscescentes, indeterminatae; stromata hypophylla, hemisphaerico-pulvinata (50)-800 diam.), saepius orbiculariter expansa, saepe 2-3-confluentia, e brunneo atra, glabra, laevia, matrici innata, forma conidica immixta, 3-8-locularia, contextu indistincto, extus atro, intus albo; loculi constipati, saepe e mutua pressione angulosi,

(150-180 diam.), nucleo albo farcti; asci clavati, antice acutati, crassiuscule tunicati, postice longiuscule attenuato-pedicellati (75–80 × 12–16), paraphysibus paucis, filiformibus obvallati, octospori; sporae mono- v. di-stichae, ellipticae v. rhomboideo-ellipticae, utrinque plus minusve abrupte rotundato-subtruncatae (16-18 × 8), hyalinae, strato mucoso concolore crassiusculo obovolutae.

Hab. Ad folia viva *Sapoteaceae* cujusdam in dumetis *Cerro pelado* prope *Paraguarí*, Oct. 1881 (sub num. 3557).

277. **Phyllachora pyrifera** Speg. (n. sp.)

Diag. Maculae nullae; stromata sparsa, rarius 2-5-gregaria v. confluentia, parvula (300-500 diam.), matrici innata, epiphylla v. amphigena, vix prominula, atra, glabra, non v. vix nitentia, pauciloculata, contextu atro, subcarbonaceo, indistincto; loculi globosi v. e mutua pressione angulosi (80-120 diam.), nucleo albo farcti; asci cylindracei, antice rotundati v. truncato-rotundati, postice breviter attenuato-pedicellati (70-80 × 7-12), octospori, paraphysibus filiformibus, densiusculis obvallati; sporae oblique monostichae v. rarius subdistichae, pyriformes v. sphaeroideo-pyriformes (12-13 × 6-8), primo granulosae, dein limpidae, hyalinae.

Hab. Ad folia viva *Verbesinae* species cujusdam in dumetis prope *Guarapí*, Jun. 1883 (sub num. 3793).

278. **Phyllachora tenuis** Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, indeterminatae, pallescentes; stromata sparsa, epiphylla, bullose prominula, minuta (1200-400 diam.), innata, tenuissima, extus atra, glabra non v. vix subnitentia, intus alba; loculi minuti (120-150 diam.), dense constipati, ostiolo subimperspicuo nucleoque albo donati; asci cylindracei v. cylindraceo-clavati, antice rotundati, crasseque tunicati, postice attenuato-pedicellati (70-75 × 10), paraphysibus parum manifestis subfluxilibus obvallati, octospori; sporae elliptico-naviculares, curvulae, utrinque plus minusve acutato-rotundatae (10-13 × 4-4,5), intus granulosae v. grosse 1-guttulatae, hyalinae.

Hab. Ad folia viva *Bignoniaceae* cujusdam in sylvis subvirgineis prope *Ibitimì*, Jan. 1882 (sub num. 3537).

Obs. Sporae an postremo excentrice 1-septatae? An forma juvenilis *Munkiellae?*

279. PHYLLACHORA SETARIAECOLA Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, pallescentes v. rubescentes, indeterminatae; stromata amphigena, elliptica, longitudinalia, dense sparsa, vix pulvinata, atra, glabra, non nitentia, subcarbonacea, intus alba (0,5-2 mllm. long. × 0,2-0,3 mllm. lat.); loculi dense constipati, globulosi (120-150 diam.), nigro-tunicati, nucleo albo-farcti; asci cylindraceo-clavati, antice truncati, tunica incrassatula, postice attenuato-pedicellati (90-95 × 10-12), paraphysibus paucis obvallati, octospori; sporae ellipticae, utrinque acutatae, rectae v. vix inaequilaterales (13-15 × 6-6,5), distichae v. rarius submonostichae, hyalinae, granuloso-farctae v. 1-guttulatae.

Hab. Ad folia viva v. languida *Setariae* species cujusdam in pascuis *Pastoreo de Caá-guazú*, Jan. 1883 (sub num. 3446).

Obs. Species ambigua ob loculos fusco-tunicatos, sed tunica pulpa stromatis arcte adnata ac concreta! An melius *Gibelliae* species? An huc *Ph. setariae* Sacc. ducenda?

PHAEOSPORAE Sacc.

280. AUERSWALDIA? BAMBUSICOLA Speg. (n. sp.)

Diag. Stromata superficialia, pulvinato-effusa, matrici arete adnata (non innata, nec erumpentia), elliptico-elongata (1-2 mllm. long. × 0,7-1 mllm. lat.), sparsa v. 3-4-confluentia, longitudinalia, fusco-atra, glabra, laevia, coriacea-subcarbonacea, contextu subindistincto, minute celluloso-parenchymatico, fusco v. atro; loculi numerosissimi, minuti (150 diam.), e mutua pressione angulosi, nucleo opalescenti-albo farcti; asci cylindracei, apice obtuse rotundati, tunica incrassata, postice breviter noduloseque attenuato-stipitati (65-70 × 7-10), aparaphysati, octospori: sporae cymbaeformes, utrinque acute obtusatae (12-13 × 5), non v. minute 2-guttulatae, fuligineae.

Hab. Ad culmos dejectos putrescentes *Bambusaceae* sarmentosae cujusdam in sylva subvirginea *Caá-guazú* prope *Arroyo-guazú*, Jan. 1882 (sub num. 3499).

Obs. Species a genere nonnihil deflectens et facile melius generi *Hypoxylo* adscribenda; characteres tamen loculorum fere sine-

dubio dothideaceis; an huc *Hyp. culmorum* C. v. *Hyp. perforatum* (Sw.) Fr.?

281. Auerswaldia palmicola Speg. (n. sp.)

Diag. Stromata amphigena, innata-superficialia, irregulariter elongato-pulvinata, inferne saepius subcoarctatula (1-3 mllm. long. × 1 mllm. lat. × 0,5-0,8 mllm. crs.), longitudinalia, superne scrupuloso-undulata, atra, subcarbonacea, fragilia, glabra, sparsa v. laxe gregaria; loculi stromate immersi, vix prominuli, globulosi (100-130 diam.), nucleo albo farcti; asci clavati, antice rotundati, postice longe attenuato-pedicellati (120-130 × 14-16), aparaphysati, octospori; sporae distichae, elliptico-inaequilaterales v. cymbaeformes, utrinque obtusatae (15 × 6-7), primo hyalinae dein opace fuligineae, non v. 2-4-guttulatae, strato mucoso, hyalino, persistente, plus minusve crasso, obovolutae.

Hab. Ad folia viva *Cocos Yatay* prope *Pirayú* in paludosis, Oct. 1881 (sub num. 3559).

Obs. Species praedistincta, an huc *Hyp. palmicola* (B et C)?

282. Auerswaldia puccinioides Speg. (n. sp.)

Diag. Maculae nullae v. parvulae, vix manifestae, pallescentes; stromata superficialia, hypophylla v. rarius amphigena, globosa v. hemisphaerico-sublenticularia (0,5-1,5 mllm. diam,), glabra, laevia (sub lente minute rugulosa), intus extusque fusco-ferrugineo-atra, sparsa v. laxe gregaria, non confluentia, basi rotundato-coarctata, punto centrali tantum matrici adnata, coriaceo-carnosa, contextu indistincto; loculi periphaerici, globulosi, minuti (140 diam.), pulpa fusca repleti; asci clavato-cylindracei, tunica crassissima, antice rotundati, postice longe attenuato-pedicellati (p. sp. 70-80 × 18 = ped. 50-60 × 5), octospori, paraphysibus paucis obvallati; sporae recte distichae, ellipticae v. elliptico-ovoideae, rectae v. leniter inaequilaterales, utrinque obtusiusculae (12-15 × 6), olivaceae, eguttulatae.

Hab. Ad folia viva coriacea plantae cujusdam in sylva *Mbocaiaté* prope *Villa Rica,* 15 Jan. 1882 (sub num. 3443).

Obs. Species pulcherrima, praedistincta, primo obtutu, facillime pro *Pucciniae* specie quadam sumenda, generibus *Hypoxylone* ac *Hypocreella* pluribus characteribus accedens.

In stromatibus ascigeris adsunt loculi minores sparsi, sper-

matiis minutis, ellipticis v. subnavicularibus (5-6 × 2-2,5), granulosis, hyalinis farcti.

HYALODIDYMAE Sacc.

MUNKIELLA Speg. (n. gen.)

Diag. Stromata, loculi et asci ut in *Dothidella;* sporae ellipticae v. ovoideae, rectae v. inaequilaterales, biloculares, loculo altero maximo, altero minuto, fere appendiculari, hyalinæ.

Genus viro sapientissimo ac strenuissimo Doctori Eberhard Munk von Rosenscheld, Sueciae filio, qui Guaraniticam Naturam acutissime ac sedulissime per viginti annos perscrutavit, anno 1869, jussu tyramni ferocissimi Lopez II, in pago Azcurra dolose interfecto, libenter dicatum.

Ejusdem collectiones botanicae atque zoologicae, vere admirabiles magnitudine ac dispositione, nec non manuscripta aurea voluminosaque in depopulatione urbium guaraniticarum amissa fuerunt et facile omnia combusta.

283. MUNKIELLA CAÁ-GUAZÚ (Speg. n. sp.)

Diag. Maculae nullae; stromata saepius epiphylla, dense sparsa, pulvinulata, plus minusve orbicularia (0,5-1,5 mllm. diam.), matrici arcte adnata (an scutata?), extus atra, ruguloso-gibbulosa, ostiolis parum perspicuis, cortice coriaceo, contextu indistincto, intus albo-carnosula; loculi numerosi, sublenticulares (150-200 diam.), nucleo gelatinoso, subhyalino farcti, ostiolo minuto, non v. vix papillulato donati; asci cylindracei v. cylindraceo-sub-clavulati, antice obtusissimi v. subtruncato-rotundati crassissimeque tunicati, postice brevissime attenuato-pedicellati, paraphysibus simplicibus, flexuosis, parcis obvallati, octospori; sporae recte v. oblique distichae naviculari-elongatae v. naviculari-subclavulatae, utrinque obtusiusculae (12-13 × 4-5), loculo infero minore, tertium v. quartum superioris vix aequante, hyalinae.

Hab. Ad folia viva *Apocinearum* in sylva subvirginea *Caá-guazú,* nec non prope *Guarapí* per ann. 1882-83 (sub num. 3510, 3874).

284. MUNKIELLA GUARANITICA Speg. (n. sp.)

Diag. Stromata maculiformia, innato-effusa, saepe totum folium

ambientia, epiphylla, rarius ad hypophyllum nonnihil manifesta, non pulvinata, fusco-v. rubiginoso-atra, non v. vix granulosa, non nitentia, cortice coriacello, pulpa alba; loculi sparsi, lenticulares (150-200 diam.), non v. vix prominuli, nucleo albo farcti, ostiolo parum perspicuo donati; asci cylindracei, antice truncato-rotundati crasseque tunicati, deorsum breviter crasseque attenuato-pedicellati (55-65 × 6-8), aparaphysati, octospori; sporae oblique monostichae v. rarius distichae, ovoideo-inaequilaterales (10 × 5), loculo supero octies quam infero longiore, hyalinæ.

Hab. Ad folia viva *Tecomae* species cujusdam prope *Peribebuy* Maj. 1883 (sub num. 3816).

285. **Munkiella guaranitica** Speg.
var. *major*.

Diag. Stromata ut in typo sed ad hypophyllum magis perspicua; asci obclavati v. subfusoidei (70-80 × 10-14), pedicello nonnihil longiore ac graciliore donati; sporae elliptico-ovoideae, paulo majores (12-13 × 6), loculo supero quintulo v. sextuplo quam infero longiore crassioreque.

Hab. Ad folia viva *Tabebuiae Avellanedae* Lrntz in *Cerro pelado* prope *Paraguarí*, Jul. 1881 (sub num. 2725).

286. **Munkiella topografica** Speg. (n. sp.)

Diag. Macullae nullae; stromata amphigena, sed praecipue hypophylla, irregulariter orbiculari-elliptica (0,4-2 mllm. diam.), saepius confluentia et secus nervos hinc inde gregaria, vix pulvinata, fusco-atra, laevia, glabra, contextu indistincto, coriaceo-membranacea; loculi conferti, immersi, pro ratione majusculi (200-250 diam.), nucleo gelatinoso albo farcti; asci cylindracei, antice obtuse rotundati, crasseque tunicati, postice modice attenuato-pedicellati (65-70 × 9-12), octospori, paraphysibus filiformibus, densissimis, subcoalescentibus obvallati; sporae monostichae v. subdistichae, ovoideo-elongatae v. subfusoideo-clavulatae, antice obtusiusculae postice acutae (15-16 × 5-6), loculo supero quintuplo v. sextuplo quam infero longiore, granuloso-farctae, hyalinae.

Hab. Ad folia viva *Fici* species cujusdam in sylvis subvirgineis prope *Guarapí*, Mart. 1881 (sub num. 2738).

287. Dothidella? caàguazuensis Speg. (n. sp.)

Diag. Maculae nullae v. pallescenti-subarescentes, indeterminatae; stromata epiphylla, rarissime hypophylla, hinc inde dense gregaria, bullas majusculas saepe totum folium ambientes efficientia, hemisphaerico-pulvinatula, parvula (0,5-1,5 mllm. diam.), saepe confluentia, granulosa, atra v. atro-velutinae cellulis elongatis, dense papilloso-prominentibus (10 × 4), contextu coriaceo-subcarbonaceo, indistincto, atro; loculi parce prominuli, globulosi (130-140 diam.), dense constipati, nucleo albo farcti, ostiolo non v. vix manifesto donati; asci cylindraceo-subfusoidei, mox fluxiles, octospori; sporae distichae, elongato-clavulatae, utrinque obtusatae (18-20 × 5) primo hyalinae dein dilute e hyalino fuscae v. chlorinae.

Hab. Ad folia viva *Compositae* cujusdam in dumetis *Pastoreo de Caá-guazú*, Jan. 1882 (sub num. 3542).

Rosenscheldia Speg. (n. gen.)

Diag. Stromata erumpentia, elongata; loculi stromate totaliter exerti, globosi, dense congesti sed non confluentes; asci cylindracei, octospori, aparaphysati; sporae fusoideo-v. clavulato-aciculares, utrinque acutae, medio 1-septatae, hyalinae.

Obs. Genus eximio Eberhard Munk von Rosenscheld merito dicatum; a genere *Montagnella* sporidiis hyalinis 1-septatis distinctus, a *Dothidella* loculis exertis, a *Munkiella* sporis medio septatis.

288. Rosenscheldia paraguaya Speg. (n. sp.)

Diag. Stromata hypodermica, inter corticem et lignum late serpentia innata, primo epidermide non deformata tecta, dein rimose longitudinaliter erumpentia, pulvinulis saepius confluentibus, ramos ramulosque totos ambientia; loculi primo stromate immersi dein totaliter exerti, globosi (250-350 diam.), densissime constipati, nunquam confluentes, glabri, laeves vix sub lente validissima minute papillulosi, tunica coriaceo-spongiosula, contextu grosse celluloso-parenchymatico (cellulis 15 diam.), subopaco, atro-fuligineo; asci cylindracei, antice truncato-rotundati crassiusculeque tunicati, postice brevissime attenuato-pedicellati (120-130 × 5), aparaphysati, octospori; sporae fusoideae v. clavulato-aciculares, utrinque acutissimae (24-30 × 2-2,5),

non v. vix inaequilaterales, medio 1-septatae, non constrictae, loculis minutissime biguttulatis, hyalinae.

Hab. Ad ramos ramulosque vivos *Hyptidis* species cujusdam in dumetis sylvae subvirgineae *Caá-guazú*, Jan. 1882 (sub num. 3536).

Obs. Species pulcherrima habitu externo *Dimerosporium Collinsii* (Schw.) Thm. v. *Parodiellae* speciem quamdam fere aemulans.

PHAEODIDYMAE Sacc.

289. **Dothidea Munkii** Speg. (n. sp.)

Diag. Microdothis; maculae nullae v. hypophyllae, parvulae, fuscescentes, indeterminatae; stromata epiphylla, sparsa, innata, tecto-erumpentia, irregulariter elongatula (0,5-2,5 mllm. long. × 0,5-1 mllm. lat.), pulvinato-prominula, glabra, subcarbonacea, extus atra, intus fusca; loculi densi stipati, in stromate leniter prominuli, irregulariter globosi (180-300 diam.), ostiolo papillulato vix perspicuo, nucleo fusco farcti; asci cylindraceo subclavatuli, antice obtuse rotundati, crassiuscule tunicati, postice breviter attenuati (65 × 8-9), paraphysibus parcis obvallati; sporae distichae v. oblique monostichae, ovoideae, utrinque rotundatae, superne saepe subtruncatae (8-9×3,5-4), 1 septatae, septo nonnihil excentrico, loculis grosse 1-guttulatis, supero fere altero duplo majore, fuligineae.

Hab. Ad folia viva *Quebrachiae* spec. cujusdam in sylvis subvirgineis prope *Guarapí*, Maj. 1881 (sub num. 2732).

PHRAGMOSPORAE Sacc.

290. **Montagnella Castagnei** Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, pallescentes; stromata amphigena, saepius tamen hypophylla, subneurophila, innato-erumpentia, parvula (0,5-1 diam.), irregulariter orbicularia, sparsa, rarius aggregata v. confluentia, subpuccinioidea, pulvinatula, primo tomento albo tecta (an stati conidici residua?), dein nuda fusco-rubiginosa, postremo fusco-atra, grānulosa (e loculis prominulis), coriacea, contextu indistincto, opaco; loculi dense constipati, ad tertium v. medium usque prominuli, ovato-subconici (150-200 diam.), nucleo albo farcti; asci sursum rotundati crasseque tunicati, deorsum breviter attenuato-pedicellati, para-

physibus filiformibus, simplicibus, densis obvallati, octospori; sporae distichae, elliptico-elongatae v. subfusoideae, utrinque acutiuscule rotundatae (18-20 × 4-5), rectae v. leniter inaequilaterales, primo medio 1-septato-constrictae, loculis majuscule 2-guttulatis, utrinque appendice globuliformi parvula ornatae, hyalinae, dein exappendiculatae, 3-septatae, ad septa non constrictae, dilute fumosae.

Hab. Ad folia viva *Eupatorii tinctorii* in uliginosis prope *Peribebuy*, Jun. 1883 (sub num. 3862).

SCOLECOSPORAE Sacc.

291. Ophiodothis? Balansae Speg. (n. sp.)

Diag. Maculae stromaticae amphigenae, suborbiculares (5-15 mllm. diam.), atrae, indeterminatae; stromata innata (in maculis vel circum circa) densiuscule gregaria, suborbicularia, rarius confluentia, vix prominula, saepius 1-locularia, coriacella, contextu indistincto, atro, opaco; loculi e globuloso lenticulares (200-300 diam.), ostiolo parum manifesto, nucleo albo farcti; asci obclavati, apice attenuato-truncati, leniter incrassato-tunicati, basi subabrupte coarctati, minute noduloseque pedicellati (65 × 10), aparaphysati, octospori; sporae fasciculato-polystichae, aciculares, utrinque attenuato-acutatae (35-40 × 2,5), lenissime curvulae, medio 1-septatae, non constrictae, loculis granuloso-farctis, hyalinae.

Hab. Ad folia viva *Bignoniaceae* cujusdam in sylvis secus flumen *Pirayú*, Jul. 1880 (sub num. 2726).

Obs. Species ob sporas biloculares inter genus *Ophiodothis* et *Dothidella* nutans.

292. Ophiodothis paraguariensis Speg. (n. sp.)

Diag. Maculae minutae (1-15 mllm. diam.), epiphyllae, rarius amphigenae, indeterminatae, arescenti-fuscae v. cinereo-atrae, dense gregariae, rarius confluentes, substromaticae; stromata minuta epiphylla, rarius hypophylla, subepidermica, cum macularum substantia confluentia, globulosa, minuta, parce prominula (100-120 diam.), atra, glabra, subnitentia, 1-locularia; loculi minuti, e globoso lenticulares (80-100 diam.), solitarii, nucleo albo farcti, ostiolo minuto non v. vix papillulato-perforato donati; asci fusoidei v. fusoideo-subclavati, sursum truncati

crassissimeque tunicati, late perforati, deorsum attenuati, pedicello parvulo noduloso instructi (50-52 × 7-9), aparaphysati v. pseudoparaphysati, octospori; sporae fusoideo-aciculares, utrinque acutato-rotundatae, rectae v. leniter curvulae (40-45×2-2,5), primo multiguttulatae, dein obscure polyblastes (an pluriseptatae?), hyalinae.

Hab. Ad folia viva *Anonaceae* cujusdam in sylvis prope *Paraguarí*, Dec. 1881 (sub num. 3439).

MICROTHYRIACEAE Sacc.

MICROTHYRIEAE Speg.

Simplices; perithecia superficialia, nigricantia, scutato-dimidiata, applanata, subiculo nullo v. plus minusve evoluto insidentia, centro poro pertusa v. astoma, serius radiatim dehiscentia.

293. Myiocopron? crustaceum Speg. (n. sp.)

Diag. Maculae nullae; perithecia amphigena, saepius hypophylla, densissime aggregata, subconfluentia, late folia crusta fusco-atra continua obtegentia ac nigrifacientia, discoidea, dimidiato-scutata, parvula (150-180 diam.), coriacella, contextu radiante subindistincto, ostiolo parum conspicuo subrotunde v. stellatim dehiscente donata; asci subsaccati, ovati v. obovati, apice obtusati, basi abrupte coarctati minuteque stipitati (40-50×15-20) paraphysibus simplicibus parcissimis immixti, octospori; sporae oblique distichae, ovoideae v. clavulatae, leniter inaequilaterales utrinque obtusiusculae, non v. medio subcoarctatulae (an demum 1-septatae?) granuloso-farctae, hyalinae (15-20 × 7-8).

Hab. Ad folia viva *Palmarum* in sylvis uliginosis prope *Peribebuy*, 24 Maj. 1883 (sub num. 3831).

294. Microthyrium paraguayense Speg. (n. sp.)

Diag. Maculae nullae; perithecia epiphylla sparsa v. hinc inde laxe gregaria, parvula (150-160 diam.), orbicularia, dimidiato-scutata, atra, membranacea, contextu eximie subparenchymatico-radiante, ostiolo minuto rotundo donata; asci cylindraceo-obclavatuli, apice truncato-rotundati crasseque tunicati, basi coar-

ctati minute nodoseque stipitati (32-35 × 8-10), paraphysibus simplicibus parcis obvallati, octospori; sporae distichae, clavulatae, medio 1-septatae, constrictae, loculo supero crassiore subglobosoque, infero conico (7-8 × 2), hyalinae.

Hab. Ad folia viva *Sapindaceae* cujusdam in sylvis prope *Guarapí*, Mart. 1880 (sub num. 3562).

295. **Microthyrium pulchellum** Speg. (n. sp.)

Diag. Maculae nullae; perithecia hypophylla, densissime congesta, maculas crustaceas, irregulariter orbiculares (2-3 mllm. diam.), sparsas, non confluentes, atras v. sordide glaucescenti-atras, non v. vix subpulvinatulas, subpapillosulas efficientia, parvula (130-180 diam.), dimidiato-scutata, orbicularia, saepe subconfluentia ac e mutua pressione angulosa, atra minutissime rugulosa, poro parum perspicuo pertusa, contextu dense prosenchymatico-radiante, pulchre concentrice zonato, fuligineo-atro, subopaco; asci cylindraceo-clavati, brevissime stipitati (30 × 10), aparaphysati?, octospori; sporae primo fusoideo-clavulatae, medio 1-septatae, non constrictae, apicibus appendice minutissima, globosa v. penicillata ornatis, dein clavulatae, ad septum constrictae, utrinque exappendiculatae obtusiusculaeque, hyalinae.

Hab. Ad folia viva *Blechni* species cujusdam in sylva *Cáa-guazú*, Jan. 1882 (sub num. 3526).

296. **Microthyrium caaguazuense** Speg. (n. sp.)

Diag. Subiculum tenuissimum, laxe arachnoideum, fuscum, amphigenum, utrinque folium, saepe totum, ambiens; perithecia hinc inde in subiculo sparsa, dimidiato-scutata (150-200), membranaceo-coriacella, fusco-atra, ostiolo vix perspicuo perforata, ambitu fimbriatula, contextu breviter prosenchymatico, periphaerico pellucido, centrali opaco, olivaceo-fuligineo; asci ovati v. elliptici, tunica modice incrassatula, utrinque acutato-rotundati, crasse brevissimeque pedicellati (65 × 26), aparaphysati, octospori; sporae inordinatae, clavulatae (25 × 12), medio 1-septato-constrictae, loculo supero subgloboso, infero conoideo, utrinque obtusiusculae, hyalinae.

Hab. Ad folia viva *Myrtaceae* cujusdam in sylva subvirginea *Caá-guazú* vocata, Jan. 1882 (sub num. 3452).

297. **Seynesia Balansae** Speg. (n. sp.)

Diag. Maculae nullae; subiculum tenuissimum, saepius epiphyllum, orbiculariter expansum, sparsum v. saepe totum folium ambiens, atrum, velutinum, hyphis simplicibus v. ramosis, flexuosis repentibus v. vix suberectis, densiuscule septulatis, gracilibus (3-4 crass.), fuligineis compositum; perithecia in subiculo laxe sparsa, hemisphaerico-dimidiata, parvula (100-200 diam.), atra, laevia, glabra, tenui membranacea, contextu eximie prosenchymatico-radiante, margine in hyphis tenuioribus, flexuosis, simplicibus v. furcatis, repentibus gracillimis producto, olivaceo, ostiolo fimbriato stellatim dehiscente (praecipue subpressione) donata, 8-16 ascos gerentia; asci subrotundato-pyriformes, antice obtusissime latissimeque truncato-rotundati, crasseque tunicati postice cuneati brevissime nodoseque stipitati (30-40 × 20-32), octospori, aparaphysati ; sporae conglobatae, ovatae, medio 1-septatae, validule constrictae, utrinque obtusae (15-17 × 7-9), loculis non v. 1-guttulatis, supero crassiore, primo hyalinae, dein fuligineae et subopacae.

Hab. Ad folia viva arborum vulgatissima in sylvis prope *Guarapí*, per annis 1881-83.

Obs. Mensurae in variis speciminibus haec sunt:

I° *f. Myrtacearum* (sub num. 3842): Subiculo saepius epiphyllo denso; perithecia membranacea 100-150 diam,; asci pyriformes 30-35 × 25-27; sporae elliptico-clavulatae 15 × 6.

II° *f. Maclurae* (sub num. 3843): Subiculo saepius epiphyllo denso; perithecia membranacea 80-100 diam.; asci pyriformes 30 × 25; sporae ovoideae 15 × 7.

III° *f. Acantacearum* (sub num. 3833): Subiculum amphigenum sparsum; perithecia membranacea 60-70 diam.; asci pyriformes 25-30 × 20-22; sporae elliptico-ovoideae 15 × 7-8.

IV° *f. Solani sp. cuj.* (sub num. 3840): Subiculo epiphyllo, laxe aggregato; perithecia coriacella 150-200 diam.; asci pyriformes 35-40 × 25-32; sporae ovoideae 14-16 × 7-8.

V° *f. Solani verbascifolii:* Subiculo epiphyllo laxo; perithecia membranacea 100-120 diam.; asci globoso-ovoidei (an muco immersis?) 30 × 20-25; sporae elliptico-ovoideae, valide constrictae 18 × 10.

Genus *Seynesia* Sacc. (Syll. v. II, p. 668) mihi melius sic delimitandum videtur: Perithecia scutato-dimidiata, ostiolo ro-

tundo donata v. astoma radiato-fimbriatim dehiscentia; asci aparaphysati, octospori; sporae 1-septatae, fuscae. Subiculo nullo v. plus minusve evoluto.

Hoc genere adscribenda *Seynesia Puiggarii* Speg. (Fung. Arg. pug. IV, n. 114), nec non species plurimae aliae *Asterinae* generis ut: Ast. *reticulata* (Kalckb. et Ck.), *Ast. megalospora* (B. et C.), *Ast. solaris* (Kalchbr. et Ck.), etc.

298. **Seynesia piraguensis** Speg. (n. sp.)

Diag. Maculae nullae; perithecia sparsa v. hinc inde laxe gregaria, subiculo deficientia, atra, dimidiato-scutata (200 diam.), per aetatem medio stellatim dehiscentia, contextu eximie radiante, fuligineo, subopaco; asci globosi (45 diam.), aparaphysati, octospori; sporae conglobatae ellipticae v. elliptico-ovatae, utrinque obtusiusculae (20-22×9-10), medio 1-septato-constrictae, rectae v. inaequilaterales, loculis vix inaequalibus, primo hyalinae dein dilute fuscae.

Hab. Af folia viva *Laurineae* cujusdam prope *Pirayú*, Sept. 1885 (sub num. 3845).

Asterina

299. **Seynesia guaranitica** Speg. (n. sp.)

Diag. Subiculo epiphyllo rarissime parce hypophyllo, laxe arachnoideo, tenuissimo, subcrustaceo, atro, ex hyphis repentibus, flexuosis, septatis (4-5 crass.), ramosis composito, folium saepe totum ambiente; perithecia scutato-dimidiata, hinc inde densiuscule aggregata, parvula (150 diam.), atra, astoma lacero-dehiscentia, margine densissime ac tenuiter reticulato-fimbriata, contextu eximie prosenchymatico-radiante, olivaceo, subopaco; ascis non visis; sporae ellipticae v. vix inaequilaterales, medio 1-septatae, leniter constrictae, utrinque obtusiuscule rotundatae (25×10), loculis subaequalibus, opace fuligineae non v. 1-guttulatae.

Hab. Ad folia viva *Trichiliae* spec. cujusdam in sylvis prope *Pirayú*, Jul. 1883 (sub num. 3846).

300. **Seynesia paraguayensis** Speg. (n. sp.)

Diag. Maculae hypophyllae, parvulae (3-5 mllm. diam.), indeterminatae, fuscae; subiculum maculiforme (2-5 mllm diam.), crustaceo-subvelutinum, atrum, orbiculare, hinc inde sparsum, ex hyphis laxe intricatis, gracilibus, simplicibus v. parce ramosis (3-5

crass.), parce septulatis, ramulis densis breviusculis (9-11 × 4-5), distichis (fere ut in Meliolis), olivaceis ornatis compositum; perithecia scutato-dimidiata (100-150 diam,), atra, opaca, glabra, primo astoma dein stellatim dehiscentia, contextu indistincto; asci globosi (30-40 diam.), 6-8 in quoque perithecio, aparaphysati, octospori; sporae conglobatae, ellipticae, rectae, medio 1-septatae, leniter constrictae, utrinque obtusiusculae (20-25 × 10), loculis grosse 1 guttulatis, supero majore crassioreque, opace fuligineae.

Hab. Ad folia viva *Bignoniaceae* spec. cujusdam in sylvis prope *Peribebuy*, Jul. 1883 (sub num. 3836).

301. SCUTELLUM GUARANITICUM Speg. (n. sp.)

Diag. Maculae nullae; subiculum parcissimum, plus minusve effusum, fuscum, innatum, fere licheninum, gonidiis tamen carens; perithecia pauca, epiphylla, hinc inde 3-5 laxe aggregata, discoidea, dimidiato-scutata, parvula (130-160 diam.), atra, coriacea, glaberrima, nitentia, ostiolo minuto rotundo (15 diam.) perforata, contextu indistincto, atro, opaco; asci cylindracei, antice truncato-rotundati, crassissime tunicati, postice attenuati, breviter crasseque pedicellati (50 × 15-18) aparaphysati, octospori; sporae distichae, ovoideae, sursum rotundato-subtruncatae, postice acutiuscule obtusatae, loculis duobus superis fuligineis, supremo centrali duplo longiore, infimo hyalino, fere appendiculari (12-14 × 5-6).

Hab. Ad folia viva *Pilocarpi pinnatifoliae* in sylvis subvirgineis prope *Paraguarí*, Nov. 1881 (sub num. 3490).

SACCARDINULA Speg. (n. gen.)

Diag. Perithecia simplicia, microthyriacea; asci pauci globosi v. ovati, octospori, aparaphysati; sporae murales, hyalinae.

Genus pulchellum Cl. Dr. P. A. Saccardo, magistro meo libenter dicatum.

302. SACCARDINULA GUARANITICA Speg. (n. sp.)

Diag. Hypophylla, glomerulatim dense sparsa; perithecia maculis stromaticis minutissimis (200-250 diam.), atris insidentia, 1-3-aggregata, hemisphaerica, dimidiato-scutata, parvula (80-100 diam.), membranaceo-coriacella, glabra, ostiolo minutissimo, saepius per aetatem stellatim lacero donata, contextu circa os-

tiolum indistincto, coriaceo-opaco, atro, ambitu parenchymatico-globuloso, seriatim radiante, olivaceo-fuligineo praedita; asci globosi v. ovoidei, apice crasse tunicati, pedicello nullo v. vix umboniformi (15-20 × 15-19), aparaphysati, octospori; sporae ellipticae v. elliptico-ovatae, rectae v. leniter curvulae, medio 1-septatae, non v. vix constrictae, loculis horizontaliter et verticaliter 1-septatis, supero nonnihil crassiore brevioreque, utrinque obtusae (10-11 × 5), hyalinae.

Hab. Ad folia viva *Ilicis theezantis* in sylva *Borja* prope *Villa Rica*, Jan. 1882 (sub num. 3470).

HEMHYSTERIEAE Speg.

Perithecia simplicia v. stromatice aggregata, dimidiato-scutata, subiculo nullo v. plus minusve evoluto insidentia, ostiolo hysterioideo donata.

MORENOELLA Speg. (n. gen.)

Diag. Perithecia subiculo plus minusve evoluto insidentia, discoidea v. elliptica, hysterioideo-rimosa; asci ovoidei, octospori, aparaphysati; sporae didymae, fuscae.

Obs. Genus speciosellum distinctissimum, a *Lembosia* Lév. perithecciis dimidiato-scutatis recedens; species Lembosiae plurimae facile huc transferendae.

Genus viro praeclaro *Francisco Moreno*, Argentiniae filio, naturae sedulo perscrutatore, amico meo, libenter dicatum.

303. **MORENOELLA AMPULLULIGERA** Speg. (n. sp.)

Diag. Maculae nullae; subiculum parcum, superficiale, subcrustaceo-velutinum, orbiculariter expansum (2-3 mllm. diam.), hinc inde sparsum, epiphyllum, atrum, ex hyphis cylindraceis, rectiusculis, laxe intricatis (5 crass.), fuligineis, densiuscule ramulosis, ramulis conico-ampulluliformibus (10 × 5), distichis, concoloribus ornatis compositum; perithecia in coespitulis subiculi laxe gregaria, elliptica v. laxe subtrigona (150-200 × 100-120), dimidiato-scutata, tenui membranacea, atra, primo astoma, dein longitudinaliter rimose dehiscentia, contextu eximie radiante, prosenchymatico, margine integra, pellucida, fumoso-atra; asci pauci elliptico-ovati, antice obtusissime rotundati

crasseque tunicati, postice abrupte rotundato-coarctati, brevissime pedicellati (30-35 × 15-18), aparaphysati, octospori; sporae di-tri-stichae, ellipticae v. subovatae, medio 1-septatae, valide constrictae, loculis subaequalibus, utrinque obtusae (12-13 × 5), rectae v. leniter curvulae, primo hyalinae dein fuscae.

Hab. Ad folia viva *Nectandrae* spec. cujusdam in sylvis prope *Pirayú*, Jul. 1883 (sub num. 3845).

SCHNEEPIA Speg. (n. gen.)

Diag. Stromata superficialia, orbicularia, dimidiato-scutata; perithecia in stromate dense constipata, linearia, radiantia, ostiolis hysterioideis in centro stromatis sitis donata; asci cylindracei paraphysati, octospori; sporae ellipticae, didymae, fuscae.

Obs. Genus pulcherrimo, celeberrimo Dr. Schneep, guaranitici imperii studioso acutissimo dicatum.

304. SCHNEEPIA GUARANITICA Speg. (n. sp.)

Diag. Maculae nullae; stromata epiphylla, sparsa, superficialia, orbicularia (1,5-2 mllm. diam.), atra, radiatim densiuscule rugulosa, ambitu centroque tantum matrici adnata; dimidiato-scutata, medium versus ostiolis aspera, contextu parenchymatico, margine minutissime fimbriatula; perithecia dense constipato-radiata (an loculi?), recta v. leniter flexuosa, ovata, saepe vix divisa ac subconfluentia (450-500 × 150-200), centrum stromatis non attingentia, pulpa ceracea, fuscidula repleta, ostiolis parvulis hysterioideis subradiantibus v. subconcentricis v. irregularibus, labiis tumidulis donatis praedita; asci cylindracei, apice truncato-rotundati, crassissime tunicati, unifoveolati, deorsum breviter attenuati minute noduloseque stipitati (50-65 × 12-14), paraphysibus parcis, simplicibus obvallati, octospori; sporae distichae, elliptico-ovatae, utrinque obtusiusculae (14 × 5), loculis subaequalibus, superiore vix crassiore bevioreque minute 2-guttulatis, primo hyalinis, dein fuscidulis.

Hab. Ad folia viva *Styracis* spec. cujusdam in dumetis convallis *Ya-kan*, 5 Mart. 1883 (sub num. 3764).

HYSTEROSTOMELLA Speg. (n. gen.)

Diag. Stromata irregulariter suborbicularia, dimidiato-scutata; perithecia in stromate dense irregulariterque constipata, differ-

mia, ostiolis hysterioideis donata; asci ovati v. subglobosi, octospori, aparaphysati; sporae ovatae, didymae, fuligineae.

Genus praecedenti pluribus characteribus affine sed ab eo satis recedens, ac paradoxum.

305. Hysterostomella guaranitica Speg. (n. sp.)

Diag. Maculae nullae; stromata epiphylla sparsa, rarius aggregato-confluentia, superficialia, irregulariter suborbicularia (1,5-2 mllm. diam.), atra, ambitu sinuosulo-undulata, glabra, minute rugulosula, dimidiato-scutata, membranaceo-coriacea, subfragilia, contextu indistincto, opaco; perithecia stromate innata, tunica propria deficientia, elliptico-difformia, saepe confluentia, pulpa gelatinosa fusca farcta, ostiolis hysterioideis, in stromate prominulis, parvulis donata; asci ovati, sursum crassiuscule tunicati, deorsum attenuati, pedicello crasso parvulo praediti (45-55 × 25-35), aparaphysati, octospori; sporae conglobatae, ovatae, utrinque obtusiusculae (24-28 × 10-15), medio 1-septatae, constrictae, loculis subaequalibus, granulosis non v. grosse 1-guttulatis, supero nonnihil majore obtusioreque, primo hyalinae, dein fuliginae.

Hab. Ad folia viva *Euphorbiaceae* arboreae cujusdam in sylvis subvirgineis prope *Mbatobí*, Jul. 1883 (sub num. 3849).

Obs. Tunica ascorum per aetatem saepius chlorinula evadit.

HYSTERIACEAE Cda.

306. Triblidium guaraniticum Speg. (n. sp.)

Diag. Erumpenti-innatum, hinc inde irregulariter v. seriatim dense congestum atro-fuscum; perithecia lineari-elongata e mutua pressione saepissime flexuosa, trigona v. subcupulato-polygona, majuscula (1-3 mllm. long. × 0,5 lat.), labiis tumidis, obtusis, costato-rugosis v. sublaevibus, fuscis, plus minusve laxe conniventibus (in formis polygonis latiuscule apertis), involutis donata, coriacea, dura; asci cylindracei, antice rotundati crassiusculeque tunicati, postice attenuato-pedicellati (130-140 × 10), octospori, paraphysibus hyalinis densissimis, apice fusco-coalescentibus, longioribus immersi; sporae recte monostichae, ellipticae, utrinque obtusiusculae (23-25 × 8-10), medio 1-septatae, constrictae, rectae v. leniter inaequilaterales, locu-

lis aequalibus non v. grosse 1-guttulatis, primo hyalinae, dein opace fuligineae.

Hab. Ad cortices truncorum putrescentium muscosos in sylvis prope *Guarapi*, 1879 (sub num. 2812).

307. **Lophodermium leptothecium** Speg. (n. sp.)

Diag. Maculae nullae v. indeterminatae fuscescentes, centro pallidiores v. albicantes; perithecia epiphylla, laxe maculis insidentia, linearia, elliptica v. elliptico-elongata, rarius trigona, recta v. leniter flexuosa (450-600 × 250-300), adnato-superficialia, atra, laevia, subnitentia, glabra, longitudinaliter rimosa, labiis acute conniventibus, tenuibus, integris, membranaceo-coriacella, contextu atro, subopaco, periphaerico grosse, centrali minute parenchymatico; asci clavato-filiformes, sursum obtuse acutati crassiusculeque tunicati, deorsum longe leniterque attenuati (100 × 4), octospori, paraphysibus filiformibus, simplicibus nonnihil longioribus apice rectis v. flexuosis, non v. vix incrassato-erosulis obvallati; sporae filiformes, rectae v. leniter flexuosae, utrinque subattenuatae, obtusiusculae (70-75 × 0,7-0,8), grosse multiguttulatae, hyalinae. Iodi ope nulla.

Hab. Ad folia dejecta exsiccata v. putrescentia *Laurineae* cujusdam in sylvis prope *Guarapi*, Jun. 1883 (sub num. 3861).

Obs. Species *Loph. maculari* (Fr.) DNtrs. affinis, sed certe satis diversa!

DISCOMYCETES Fr.

308. **Peziza** *(Aleuria)* **guaranitica** Speg. (n. sp.)

Diag. Eualeuria; ascomata carnosa, mediocria (20-30 mllm. diam.), inferne breviter conico-stipitata, superne dilatato-orbicularia v. subdimidiato-expansa, glabra, laevia, tactu tamen velutino-asperula, ad pedicellum tantum vix rugulosa, margine acuto integroque praedita, extus aurantia intus carneo v. violascenti-olivacea, planissima v. vix undulata; asci cylindracei, antice acutiuscule rotundati, postice attenuato-pedicellati (p. sp. 50-65 × 5-7 = ped. 25-40 × 3-5), octospori, paraphysibus subaequalibus, filiformibus, apice rectis et non incrassatis, densiuscule rotundati; sporae recte v. oblique monostichae (rarius apice distichae), ellipticae, rectae v. saepe inaequilaterales v. sub-

cymbaeformes, utrinque obtuse acutatae (7-10×3), non v. grosse 2 guttulatae, hyalinae. Iodi ope nulla.

Hab. Ad truncos dejectos putrescentes in sylvis prope *Guarapí*, 1880 (sub. num. 3410).

309. PEZIZA *(Humaria)* BALANSAE Speg. (n. sp.)

Diag. Ascomata sessilia, applanato-cupulata, orbicularia (4-5 mllm. crass.), extus sordide olivascenti-fusca, furfuracea, disco plano v. concavo, laevi, aureo v. aurantiaco, marginata, dense longeque setulosa, setulis rectis, cylindraceo-fusoideis v. cylindraceo-subclavulatis apice attenuato-acutatis, basi leniter attenuatis, 2-5 septatis (100-500×20-25), laevibus, pellucidis, fuligineis; asci cylindracei antice non v. vix attenuati, truncato-subrotundatuli, postice attenuato-pedicellati (p. sp. 125-135×11-12=ped. 75-85×5), octospori, paraphysibus filiformibus vix longioribus apice subgloboso-clavatis (10-15×5-8), hyalinis obvallati; sporae ellipticae, utrinque obtusiusculae (16-18×10-11), hyalinae, eguttulatae, episporio dense leniterque verruculoso. Iodi ope nulla v. tunica apicis ascorum vix dilutissime coerulescente.

Hab. Ad cortices dejectos putrescentes in sylvis prope *Guarapí*, Jun. 1879 (sub num. 3405).

310. PEZIZA HEMATOCHLORA Speg.—Fung. Arg., p. IV, n. 216.

var. *microspora* Speg.

Diag. Ascomata ut in typo, epithecio sanguineo, papilloso, contextu corticis denso sublateritio indistincto, papillarum grosse laxeque celluloso, fulvo-rubro, carne alba e fibris hyalinis, tenuibus (2-3 crass.), dense strigoseque contextis formata; asci cylindracei, antice rotundati, postice attenuato-pedicellati (55-58×5), octospori, paraphysibus parum longioribus, tenuibus (62-60×2-2,5), apice incrassatulis, acuteque productis, chlorinulis, verruculosis obvallati; sporae ellipticae, suballantoideae, utrinque obtusiusculae (6-8×1,5-2), hyalinae. Membrana ascorum iodi ope non v. vix coerulescens.

Hab. Ad corticem truncorum putrescentium *Citri aurantii* in hortis prope *Guarapí*, 28 Jul. 1881 (sub num. 2815).

311. PEZIZA *(Pulparia)* AUSTRALIS Speg. (n. sp.)

Diag. Ascomata hinc inde pauci-aggregata, saepe subfasciculata,

breviter pedicellata, turbinato-expansa (1-1,5 mllm. diam.), membranaceo-carnosula, tenacella, cinerella, extus vix magis obscura, glabra (sub lente valida pruinulosa), in disco pallidiora, margine acuta integra, uda plana, sicca undulato-involuta, contextu indistincto, olivacello; asci clavati, sursum acutato-obtusati, deorsum attenuato-stipitati (38-40 × 5), octospori, paraphysibus vix longioribus antice incrassatulis, hyalinis, simplicibus obvallati; sporae globosae (3-3,5), laeves, grosse guttulatae v. granulosae, hyalinae. Iodi ope nulla.

Hab. Ad truncos cariosos putrescentos in sylvis subvirgineis prope *Carapeguá*, 24 Jul. 1883 (sub. num. 3825).

Obs. Speeies pulchella, habitu inter *Helotium* Fr. et *Chlorosplenium* Fr. intermedia, matrice non viridi, sporis globosis ab utroque recedens.

312. **Helotium guaraniticum** Speg. (n. sp.)

Diag. Pseudhelotium; ascomata sparsa, sordide lutescenti-ceracea, minuta, pedicello longiusculo, gracili (300-350×80-90), cupula turbinato-concava (200-500×150-200), crassiuscula, carnosulo-tenacella, intus glabra, extus praecipue ad marginem albo-puberula v. minutissime puberulo-papillosa, papillis cylindraceo-clavulatis, granuloso-asperulis (25-30×3), hyalinis; asci cylindraceo-clavulati, sursum plus minusve abrupte acutati v. obtusati, deorsum breviter attenuato pedicellati (48-52×5-7), octospori, paraphysibus crassiusculis, ad apicem praecipue granulosis (60×1-2) parce obvallati; sporae aciculares, elongatae utrinque acutiusculae (32-38×1), guttulatae, hyalinae. Iodi ope nulla v. vix dilutissime apice ascorum coerulescente.

Hab. Ad folia dejecta putrescentia *Laurineae* cujusdam in sylvis prope *Guarapí*, Jun. 1883 (sub. num. 3863).

Obs. Species habitu externo inter *Helotium* Fr. et *Trichopeziza* Fuck. media, sporis acicularibus ab utroque satis abhorrens.

313. **Stictis Saccardoi** Rhm.

var. *intermedia* Speg., Fung. Arg., pug. IV. n. 231.

Hab. Ad ligna vetusta putrescentia in sylva subvirginea *Caáguazú*, 17 Jan. 1881 (sub. num. 3508).

Obs. Asci cylindracei apice truncato-rotundati crasseque tunicati, basi breviter grosseque stipitati (115-120×8); sporae filiformes utrinque obtusiusculae (80-105×2), multiseptatae, hyalinae.

Iodi ope nulla, vix muco hymeniali dilutissime coerulescente.

Forma haec nec non plures aliae, facillime species satis distinctas sistunt, et studium monographicum sedulum specierum opus est.

314. Coccomyces leptosporum Speg. (n. sp.)

Diag. Maculae sordide albae v. fuscescenti-pallidae, irregulariter expansae, linea tenuissima nigra dense sinuosula limitatae, majusculae, subconfluentes ac saepe folium totum occupantes; ascomata atra in maculis sparsa, tri-tetragona (400-600 diam.), primo clausa, subhemisphaerica, dein 4-laciniato-fissa, aperta, disco sordide ceraceo-flavescente, epithecio membranaceo-coriacello, contextu minute parenchymatico, atro-fuligineo; asci cylindraceo-clavulati apice subcuneati, crassiuscule tunicati, basi attenuati, brevissime crassissimeque pedicellati (75-80×5), octospori, paraphysibus parum conspicuis, tenuissimis, parcis obvallati; sporae ascorum longitudine, filiformes (70×1), utrinque obtusiuscule acutatae, multiguttulatae, hyalinae.

Hab. Ad folia emortua putrescentia *Laurineae* cujusdam in sylvis prope *Guarapí*, Jan. 1883 (sub num. 3861).

Rhytidopeziza Speg. (n. gen.)

Diag. Ascomata erumpenti-superficialia, sessilia, cupulata, dura, cornea v. subcarbonacea, atra, margine integro, involuto, minute ac dense costato-rugoso; asci cylindracei, octospori, dense paraphysati; sporae triseptatae, opace fuliginae.

Obs. Genus Lichenibus cognatum, Hysteriaceis etiam peraffine labiis tamen semper apertis et non conniventibus recedens, meliusque sub Discomycetes militare videtur.

315. Rhytidopeziza Balansae Speg. (n. sp.)

Diag. Ascomata sparsa v. hinc inde gregaria, innato-superficialia, discoidea v. e mutua pressione difformia (1,5-2 mllm. diam.), uda coriaceo-subgelatinosa, sicca corneo-subcarbonacea, dura, sessilia, cupulata, extus atra, margine integra, labiis subconniventibus v. late apertis, dense minuteque rugoloso-costatis, disco plano coccineo; asci cylindracei, apice obtuse rotundati, crasseque tunicati, deorsum attenuati pedicello crasso brevique suffulti (160-180×10), octospori, paraphy-

sibus filiformibus, simplicibus densissime stipatis, apice coalescentibus rubescentibusque obvallati; sporae elipticae, utrinque obtusae (25-30×8), 3-septatae septo medio tantum constrictae, primo flavescentes dein opace fuligineae.

Hab. Ad cortices dejectos putrescentes in sylvis subvirgineis prope *Guarapí*, Jul. 1879 (sub num. 2814).

MYXOMYCETEAE (Fr.). DBy.

316. **Tilmadoche mutabilis** Rostaf. Sluzowc. pag. 130.

Hab. Ad cortices putrescentes in sylvis prope *Guarapí*, Aug. 1881 (sub n. 2805).

Obs. Sporangia subhemisphaerica, inferne umbilicata, nutantia, flavida, stipite aureo v. sulfureo fulta; capillitii tubuli e hyalino flavescentes, tenues, ad furcationes incrassati; sporae globosae (8-9), laeves, dilute fusco-vinosae.

317. **Didymium squamulosum** (A. et S.) Fr.

Hab. Ad folia viva et cortices truncorum in sylvis prope *Guarapí* per annis 1880-81 (sub n. 3426-3456).

Obs. Forma truncicola omnibus partibus paulo quam forma foliicola major.

318. **Didymium squamulosum** (A. et S.) Fr.
Var. *leucopus* (Fr.)

Hab. Ad folia viva *Casseberiae triphyllae* in montosis *Cordillera de Peribebuy* vocatis, Mart. 1881 (sub n. 2748).

319. **Didymium effusum** (Link) Fr.

Hab. Ad folia viva *graminacearum* repentium in pago *Paraguarí*, Jul. 1883 (sub n. 3762).

Obs. Sporae fusco-vinosae, globosae (7-11) dense minuteque granuloso asperulae.

320. **Didymium paraguayense** Speg. (n. sp.)

Diag. Sporangia primo globosa v. elliptico-elongata (0,5-1‴×0,5‴),

sessilia rarius breviter substipitata, pulchre intenseque violacea, hypothallo mucedineo, fusco, tenuissimo, effuso insidentia laxeque adnata, dein hemisphaerica v. reniformia (1–2‴ long. × 0,8-1‴ lat.), sessilia, subrepentia, cute candido, crasso, rimose v. frustulatim dehiscente tecta, gleba fulva v. pallide cervina farcta. Capillitium tenuissimum, hyalinum, non evanescens; sporae globosae (7-8 diam.), laevissimae, dilute fusco-olivaceae v. tabacinae. Granula calcarea numerosissima, minutissima, hyalina, globulosa v. irregulariter angulosa.

Hab. Ad folia dejecta nec non ad cortices putrescentes *Luheae grandiflorae* prope *Guarapí*, Nov. 1881 (sub n. 3437).

321. **Perichaena ? pseudaecidium** Speg. (n. sp.)

Diag. Sporangia conica, cylindracea v. calyciformia (1-1,5‴ long. × 0,5-1 diam.), sessilia v. breviter stipitata, tunica tenuissime cartilagineo-membranacea donata, basi laevia v. minute rugulosa, apice irregulariter laciniatim v. fimbriatim dehiscentia, castanea v. fusco tabacina; gleba citrina v. flavescens. Capillitii tubuli tenuissimi (1 crass.), parce ramosi, laevissimi, hinc inde spinulis solitariis conicis v. elongato subramululiformibus ornati, flavescenti-hyalini. Sporae globosae (6-7 diam.) e mutua pressione saepe compresso-angulosulae, laevissimae, dilute flavescenti-vinosae.

Hab. Ad folia viva *Filicum* plurimarum nec non *Tillandsiae muscoidis* in montuosis *Sierra de Tchololo* vocatis, Jul. 1881 (sub. n. 2750 *a*, *b*).

Obs. Species pulcherrima ac paradoxa, forma foliicola aecidium quoddam eximie simulans, facillime novi generis typum sistens.

322. **Licea? guaranitica** Speg. (n. sp.)

Hab. Sporangia laxe gregaria, superne obscure ochracea hemisphaerica, inferne cinerascentia ac obconica (0,5-1‴ diam.), stipite elongato crassoque (1-2‴ long. × 0,2-0,3‴ crass.), fusco-ochraceo, basin versus incrassatulo, hypothallo sordide fusco, mucedineo, crustaceo, lateque diffuso insidente fulta, calce atque columella destituta gleba, concolori farcta. Capillitii tubuli dimorfi, alii crassiusculi (4-5 diam.), laevissimi, parce ramosi septatique, alii tenuissimi (1,5-2 diam.), dense ramoso-anastomosantes, hinc inde denticulato-nodulosi, hyalini, dense septati. Sporae

globosae v. hemisphaericae (4-8 diam.), grosse 1-guttulatae, saepe caudula (4-5 × 1), tortuosula donatae.

Hab. Ad cortices putrescentes in sylvis prope *Guarapí*, 28 Mart. 1880 (sub n. 2756).

Obs. Species pulcherrima, facillime pro *Stylbi* specie sumenda, a genere *Licea* satis desciscens et melius novi generis typum.

323. **Trichia chrysosperma** (Bull.) DC.
Var. *turbinata* (Hds.)

Hab. Ad folia graminum dejecta putrescentia in sylvaticis prope *Peribebuy*, Jun. 1883 (sub n. 3858).

Obs. Sporangia dense constipata, obovata (0,75‴ alt. × 0,35-0,40‴ diam.) flavo-virescentia; capillitii tubuli taeniolis simplicibus spiralibus donati, apicibus liberis attenuatis, flavidi (5 crass.); sporae globosae, reticulato-areolatae (8-9 diam.), flavae.

324. **Hemiarcyria clavata** (Pers.) *Rostaf.* Sluzowc. p. 264.

Hab. Ad lignum emarcidum mucidum in sylvis prope *Guarapí*, Jul. 1881 (sub n. 2751.)

Obs. Sporangia fulvo-cinnamomea, cute membranaceo superne frustulatim evanido, inferne persistente anhisto, fulvo, hyalino-punctulato, ex ovato globosa (0,5-0,6‴ diam.), stipite recto, rigidulo, opaco, tabacino (1-1,5‴ long.); capillitio cinnamomeo, reticulato, tubulis tenuibus (5-6 crass.), sordide fulvescentibus composito; sporae globosae (siccae hemisphaericae) sordide diluteque flavidae (7-8 diam.), minutissime granuloso-punctulatae.

FUNGI IMPERFECTI

SPHAEROPSIDEAE Lév.

325. **Phyllosticta chamissoae** Speg. (n. sp.)

Diag. Maculae amphigenae, orbiculares, determinatae, sparsae, majusculae (5‴ diam.), arescenti-pallescentes, zona fusca v. ferruginea, strictiuscula cinctae; perithecia epidermide tecta e globoso lenticularia, atra, sicca collabescentia (150-200 diam.) ostiolo rotundo latiusculo perforata, membranacea contextu minute parenchymatico, pellucido, fusco-fuligineo; sporulae ellip-

ticae v. ovoideae (9-12×3-3,5), apice infero acuto saepe curvulo, hyalinae.

Hab. Ad folia viva *Chamissoae celosioidis* prope *Guarapi*, Dec. 1881 (sub n. 3516).

326. **Phyllosticta hesperidearum** (Catt.) Penz.

Hab. Ad folia viva *Citri vulgaris* in sylvaticis prope *Guarapí*, Oct. 1881 (sub n. 3519).

327. **Phyllosticta monesiae** Speg. (n. sp.).

Diag. Maculae amphigenae, orbiculares v. irregulares (2-3‴ diam.), arescenti-pallescentes, determinatae, sparsae, zona nulla v. vix perspicua ac fuscescente limitatae; perithecia epidermide tecta, lenticularia (100-150 diam.), sparsa, atra, sicca collabescentia, glabra, ostiolo minuto pertusa, tenui membranacea, contextu parenchymatico, olivaceo donata; sporulae ellipticae (3,5-4 × 1,5-2), utrinque obtusissimae, grosse 2-guttulatae v. eguttulatae, hyalinae.

Hab. Ad folia languida *Monesiae* spec. in *Cerro Hu* prope *Paraguarí*, Oct. 1882 (sub n. 3437).

328. **Phoma bambusina** Speg. (n. sp.)

Diag. Maculae nullae; perithecia adnato superficialia, subelliptica v. elongatula (0,2-0,3 × 0,15‴), atra, glabra, rimose irregulariterque dehiscentia, subcarbonaceo-carnosula, contextu parenchymatico subindistinto, atro-fuligineo; sporulae ellipticae (10×3) superne acutiuscule rotundatae, inferne acutato-truncatae, nebulosae, minute 2-guttulatae, hyalinae.

Hab. Ad folia viva *Bambusaceae* spec., socia *Phyllachora bambusina* Speg., prope *Naranjo*, 24 Maj. 1883 (sub. n. 3828).

329. **Phoma sordidula** Speg. (n. sp.)

Diag. Maculae nullae; perithecia epidermide cinerascenti tecta, sparsa, lenticularia, minuta (80-100 diam.), sicca subcollabescentia, atra, glabra, tenui membranacea, contextu parenchymatico-celluloso, fuligineo donata, ostiolo parvulo, papillulato pertusa; sporulae minutae, ellipticae v. ovoideae (3-3,5×1,5-2), utrinque obtusiusculae, minute 2-guttulatae, hyalinae.

Hab. Ad siliquas exsiccatas *Cassiae* speciei cujusdam prope *Guarapí*, Jul. 1883 (sub n. 3803).

330. **Chaetophoma? ampullula** Speg. (n. sp.)

Diag. Perithecia superficialia globosa, brevissime subampulluliformia ex ostiolo papillulato, crassissimo, late perforato, margine fimbriatulo, minuta (60-70 diam.), membranacea, contextu parenchymatico, olivaceo fuligineo, subiculo parcissimo radiante, fibrillis atris, opacis, rectiusculis constituto, insidentia; sporulae ellipticae, utrinque obtusiusculae (5-6×2,5-3), 2 guttulatae, hyalinae v. *chlorino-fumosae.*

Hab. Ad folia viva plantae ignotae cujusdam (socia *Meliola dubia* Speg.) in sylvis prope *Guarapí*, Jul. 1883 (sub n. 3782).

Obs. Species pulcherrima peritheciis vere singularibus distinctissima.

331. **Chaetophoma? maydis** Speg. (n. sp.)

Diag. Perithecia globosa (50-90 diam.), astoma (an semper?), primo pellucida e hyalino chlorina, dein, praecipue in parte supera, atra, glabra, laevia, tenui membranacea, sparsa v. hinc inde laxe glomerulata, contextu pellucido, indistincto donata, hypothallo mucoso-granuloso, saepe per aetatem evanescente insidentia; sporulae ellipticae, utrinque obtuse rotundatae (2,5-3,5 × 1,5-2), hyalinae.

Hab. Ad folia dejecta putrescentia *Zeae Maydis* nec non (rarius) *Sacchari officinalis*, prope *Guarapí*, Aug. et Dec. 1881-82 (sub n. 2790, 3733).

332. **Placosphaeria? scirrhioides** Speg. (n. sp.)

Diag. Maculae nullae v. hypophyllae, parvulae, lineares, ferrugineae; stromata epiphylla, longitudinalia, laxe gregaria v. sparsa, lineari-elongata (1-5‴ long. × 0,20-0,25‴ diam.), recta, epidermide fissa tecta, atra, glabra; perithecia stromate immersa, globulosa e mutua pressione e latere compressa (150-180×100), ostiolo parvulo papillulato perforata, membranacea, contextu indistincto, fusco; sporulae ellipticae v. ovoideae, utrinque obtusiusculae (5×1,5), primo hyalino-chlorinae, dein *dilute fumoso-fuligineae.*

Hab. Ad folia viva *Bambusaceae* cujusdam, in sylva subvirginea *Caa-guazú* vocata, Jan. 1882 (sub n. 3444).

Obs. Species generi novi typum facillime sistens, ob sporulas per aetatem coloratas. Genus *Placosphaeria* cum genere *Melasmia*

valde affinis et limites inter duo genera, ut videtur in speciebus sequentibus, difficillime determinandi.

333. **Placosphaeria? acalyptosporoides** Speg. (n. sp.)

Diag. Maculae determinatae, stromaticae, atrae, amphigenae, tenues, coriacelle, irregulariter angulosae, majusculae (3-6‴ diam.), saepius secundum nervos secundarios evolutae, glabrae v. minute rugulosae; stroma intus album, loculis minutis, densissimis, labyrinthoideo-cerebrinis donatum; sporulae non visae!

Hab. Ad folia viva *Eugeniae* speciei cujusdam in dumetis prope *Guarapí*, Oct. 1880 (sub n. 2734).

334. **Placosphaeria paraguariensis** Speg. (n. sp.)

Diag. Maculae subindeterminatae, parvulae (1-2‴ diam.), orbiculari-irregulares, arescenti-fuscae, parum manifestae, amphigenae; stromata parvula, epiphylla, macularum centro insidentia, atra, glabra, rugulosa, prominula, 2-5-locularia, coriacella, contextu indistincto, opaco, atro; loculi globosi v. e mutua pressione angulosi, parvuli (120-150 diam.), ostiolo minuto donati; sterigmata fasciculata, filiformia (20×1), hyalina, acrogenè monospora; sporulae cylindraceae, ellipticae v. ovoideae, saepeque suballantoideae (6-7×1-2), saepe utrinque minute 1-guttulatae ac plus minusve rotundatae, hyalinae.

Hab. Ad folia viva *Crotonis* speciei cujusdam in sylvis prope *Paraguarí*, Maj. 1881 (sub n. 2721).

335. **Placosphaeria caa-catú** Speg. (n. sp.)

Diag. Maculae nullae v. hypophyllae, minutae, fuscescentes; stromata sparsa, irregulariter subelliptico-orbicularia (1-1,5‴ diam.) vix pulvinulato-prominula, atro-fusca, glabra, rugulosa, coriacella, contextu indistincto, opaco; loculi pauci globulosi v. e mutua pressione angulosi (100-150 diam.); sporulae ellipticae v. subnaviculares, utrinque obtusae (12-16 × 4-6), dense granuloso-nubilosae.

Hab. Ad folia viva arboris cujusdam *Caa-catú* vocatae, in sylva subvirginea *Caá-guazú*, Jan. 1882 (sub n. 3541).

336. **Placosphaeria pestis-nigra** Speg. (n. sp.)

Diag. Stroma parum manifestum, innatum, ramulos foliaque omnia ac tota ambiens eaque tamen vix deformans sed intense

nigrificans; loculi parenchymate immersi vix ad epiphyllum prominuli ac perspicui, minuti, globoso-lenticulares (90-110), densiuscule sparsi, non confluentes, atri, glabri, laeves; sporulae ellipticae, utrinque obtusatulo-rotundatae (2,5-3 × 1) hyalinae.

Hab. Ad folia viva *Malpighiaceae* cujusdam in dumetis prope *Paraguarí*, Oct. 1881 (sub n. 3553).

Obs. Status spermogonicus *Phyllachorae pestis-nigrae* Speg.

337. SPHAEROPSIS? CERATOPHORA Speg. (n. sp.)

Diag. Perithecia corticola, inmersa, laxe gregaria v. sparsa globulosa (150 diam.), atra, opaca, coriacea, contextu indistincto, ostiolo nigro, elongato, exerto (1-1,5‴ long. × 0,1-0,2‴ diam.), fibroso-prosenchymatico, ex hyphis chlorino-olivaceis composito, apice perforato fimbriatuloque; fibris ostioli tenuibus (2 crass.), flexuosis, laxe septulatis; sporulae ellipticae v. ovoideae, inferne subtruncatulae (12-15 × 7-8), cinnamomeae, grosse 1-2 guttulatae, strato mucoso tenui, hyalino involutae, sterigmatibus subampulluliformibus v. ovoideo-elongatis (15-20 × 5) hyalinis insidentes.

Hab. Ad corticem emortuum ramorum in sylvis prope *Guarapí*, Jul. 1883 (sub n. 3876).

CAPNODIASTRUM Speg. (n. gen.)

Diag. Perithecia globosa, olivacea, astoma, parvula, parenchymatica, subiculo helminthosporioideo innata; sporulae ellipticae v. ovoideae, simplices (an postremo didymae?), fuligineae.

338. CAPNODIASTRUM GUARANITICUM Speg. (n. sp.)

Diag. Maculae nullae; subiculum tenuissimum, effusum saepius hypophyllum totum obtegens, Gyroceratis speciem quamdam eximie simulans, fusco-olivaceum, pilis intertextum, ex hyphis omnibus repentibus, ramulosis, parce anastomosantibus, muco fuscescente inspersis compositum; perithecia obscure olivacea, hinc inde sparsa, in subiculo abscondita, globosa (50-60 diam.), astoma, irregulariter dehiscentia, membranacea, contextu grosse parenchymatico-celluloso; sporulae ellipticae, rarius ovoideae (16-18 × 9-11), dense granuloso-nubilosae, grosse 1-guttulatae, episporio laevi, crassiusculo donatae, pellucidae, obscurae fuligineae.

Hab. Ad folia viva *Celtidis boliviensis* in sylvis prope *Guarapí*, Maj. 1881 (sub n. 2727).

Obs. Sporulae nonnullae diblastes visae.

339. **Capnodiastrum paraguayense** Speg. (n. sp.)

Diag. Maculae nullae; subiculum effusum, hypophyllum, maculas orbiculares (2-3‴ diam.), sparsas v. saepe confluentes olivaceas efficiens, ex hyphis ramosissimis, tortuosis, gracilibus (4–5 crass.), dense intertextis ac septulatis, subopace fuligineis compositum; perithecia ex segmento hypharum conflata, parvula, globulosa (70-80 diam.), olivaceo-fuliginea, membranacea, contextu grosse celluloso-parenchymatico, pellucido, olivaceo; sporulae ovoideae (14-16 × 7-8), nubiloso-granulosae, e strato proligero peritheciorum inmediate oriundae, fuligineae.

Hab. Ad folia *Celtidis* speciei cujusdam in dumetis prope *Asuncion*, April. 1882 (sub n. 3745).

Obs. Species hujus generis pluribus characteribus *Cicinnobolo* genere peraffines.

340. **Ascochyta balansae** Speg. (n. sp.)

Diag. Maculae amphigenae, orbiculares (3-5‴), albae, pellucidae, determinatae, zona nulla v. strictissima obscura cinctae, sparsae; perithecia pauca, lenticularia (70-80 diam.), epiphylla, atra, glabra, tenui-membranacea, ostiolo parvulo pertusa, contextu minute parenchymatico, fusco-fuligineo; sporulae elliptico-elongatae, rectae v. curvulae, utrinque obtuse rotundatae v. subtruncatae (6-12 × 2-2,5), 1-septatae, non constrictae, hyalinae.

Hab. Ad folia viva *Myrtaceae* (an *Terebinthaceae?*) speciei cujusdam in sylvis prope *Guarapí*, Dec. 1881 (sub n. 3462).

341. **Actinonema rosae** (Lib.) Fr.

Hab. Ad folia viva *Rosae* speciei cujusdam cultae in *Paraguarí*, Nov. 1881 (sub n. 3561).

342. **Darluca filum** (Biv.) Cast.

Hab. In soris *Uredinearum* ad folia viva plantarum plurimarum in tota fere ditione paraguayensi.

Obs. Perithecia e globoso ovoidea (80-110 diam.), quandoque solitaria quandoque aggregata, atra, laevia, circa ostiolum carbonacea, laxe majusculeque parenchymatica fusca; sporulae fusoi-

deae, medio 1-septatae, non v. vix constrictae, utrinque minute mucoso-appendiculatae, nubilosae, hyalinae.

a) n. 3734. Perithecia solitaria (100-110 diam.); sporulae fusoideae (10×4) rarissimè septulatae.

Hab. In *Uredine Maydis*, *Guarapí*, Dec. 1882.

b) n. 3862. Perithecia solitaria (100 diam.), sporulae ellipticae v. subcylindraceo-fusoideae (10-14×3-4), septatae, vix v. non constrictae.

Hab. Ad *Pucciniam tinctoriam* in *Eupatorio tinctorio, Naranjo* Jun. 1883.

c) n. 3556. Perithecia 3-5-aggregata, globosa (65-70 diam.); sporulae ut in praecedente (12-15×2,5-3).

Hab. In *Uredine Gibertii* ad folia Labiatae cujusdam, *Pastoreo de Caá-guazú*, Jan. 1882.

d) n. 3729. Perithecia ut in praecedente (90-100 diam.); sporulae biconicae (10-12×2-3).

Hab. In *Uredine Valenzueliana* ad folia *Metastelmatis* speciei, *Jakan*, Oct. 1882.

e) n. 3772. Perithecia lenticularia (80-90 diam.), 3-7-aggregata, subpulvinulata, areola parvula flavescente cincta; sporulae elongato-fusoideae v. subclavulatae (12-15×2,5-3), septatae, non v. vix subconstrictae.

Hab. Ad hypophyllum *Polygaleae* foliorum, sine Uredine ulla, *Peribebuy*, Mart. 1883.

PUCCINIOSPORA Speg. (n. gen.)

Diag. Perithecia superficialia, globosa, astoma ?, atra, subiculo parcissimo radiante foliicolo insidentia; sporulae majusculae, didymae, hyalinae.

343. PUCCINIOSPORA CHUSQUEAE Speg. (n. sp.)

Diag. Maculae amphigenae, ellipticae (1,5-2,5″×1‴), ferrugineae, indeterminatae, areola decolorata flavescente, strictiuscula cinctae; perithecia epiphylla, 2-5 laxe aggregata, centro macularum insidentia, globosa (120-160 diam.), atra, subverruculosa, astoma, membranacea, contextu grosse parenchymatico-celluloso, pellucido, olivaceo, hyphis paucis, repentibus, undulatis, dilute olivaceis, parce septulatis, insidenti-cincta; sporulae ellipticae v. ovoideae, superne late obtusissimeque rotundatae, inferne subcuneatae (35-36×15), diblastes v. medio 1-septatae, non con-

strictae, nubiloso-farctae, pedicello brevissimo (5×4), hyalino, appendiculatae.

Hab. Ad folia viva *Chusqueae tenuiglumis* prope Villa-Rica, Jan. 1882 (sub n. 3441).

344. DIPLODIA GUARANITICA Speg. (n. sp.)

Diag. Perithecia lenticulari-globosa (150-200 diam.), matrice denudata plana ad medium usque insculpta, dense conferta, sed non confluentia, carbonacea, atra, laevia v. vix rugulosa, glabra, contextu indistincto, atro, opaco, ostiolo minutissimo vix papillulato perforata; sporulae elliptico-ovoideae v. subpyriformes (20-22×10-11), rectae v. vix inaequilaterales, medio 1-septatae, parce constrictae, loculo supero nonnihil majore obtusioreque, infero subconico ac minore, sterigmatibus subconicis (10×5) acrogenae, paraphysibus duplo v. triplo longioribus paucis, septulatis v. subtorulosis, subdiffluentibus obvallatae.

Hab. Ad corticem putrescentem arboris cujusdam prope *Carapeguá*, 24 Jul. 1883 (sub n. 3871).

345. CAPNODIUM (*Microxyphium*) CHAETOMORPHUM Speg. (n. sp.)

Diag. Subiculum epiphyllum, crustaceum, atrum, ex hyphis repentibus densissimis torulosis, segmentibus medio constrictis (6-10×3), grosse 2-guttulatis, olivaceis compositum, hyphis paucissimis erectis cylindraceis, septatis (60-150×6-8), rigidulis donatum; perithecia sparsa v. laxe hinc inde 2-6 aggregata, cylindracea, erecta, recta v. vix flexuosula (250-300×10-20), sursum gradatim attenuata, apice vix inflatula ac subfimbriato-penicillata, atra, opaca; sporulae ellipticae, rectae v. inaequilaterales 3 (rarius 4) septatae, ad septa non constrictae, utrinque obtusatae (14-15×4), hyalinae.

Hab. Ad folia viva coriacea plantae cujusdam ignotae, prope *Caá-guazú*, Jan. 82 (sub n. 3452).

346. CAPNODIUM (*Microxyphium*) GUARANITICUM Speg. (n. sp.)

Diag. Epiphyllum, densissime crustaceum, tenue, album, ex hyphis omnibus repentibus, dense ramoso-intricatis, torulosis, loculis subglobosis v. subellipticis, e mutua pressione angulosis (4-10×4-5), grosse 1-guttulatis, olivaceis, compositum; perithecia cylindracea, saepe basi nodulosa (250-400×15-20) sursum non v. vix attenuata, atra, opaca, apice vix pellucida, prosenchymati-

ca, non inflata nec fimbriata; sporulae cylindraceo-elongatae, utrinque obtusiusculae (15-22 × 3,5-5), 3-septatae, hyalinae.

Hab. Ad folia juniora plantae praecedentis in sylva *Caá-guazú*, Jan. 1882 (sub n. 3452).

Obs. Inter perithecia descripta adsunt perithecia minora, ovoidea v. elongato-ovoidea (40-50 × 20), prosenchymatica, atra, opaca, sporulis minimis, ellipticis, utrinque subtruncato-rotundatis (2,5-3 × 1), hyalinis farcta.

347. CAPNODIUM *(Microxyphium)* PARAGUAYENSE Speg. (n. sp.)

Diag. Epiphyllum, effusum, saepe totum folium occupans, crustaceo-velutinum, aterrimun; hyphae repentes dense ramoso-intricatae, toruloso-articulatae, articulis subrotundis v. subellipticis (5 crass.) e mutua pressione angulosis, grosse 1 v. 2-ocellatis, olivaceis; perithecia atro-olivacea, subopaca cylindraceo-fusoidea (200-300 × 20-40), inferne subnodulosa, sursum attenuata, apiceque hyalino-fimbriata ac dehiscentia, prosenchymatica; sporulae elliptico-elongatae, utrinque obtusae (10-12 × 4) rectae v. vix curvulae, 3-loculares, hyalinae.

Hab. Ad folia viva *Compositae* arborescentis cujusdam in sylvis prope *Villa Rica*, 18 Jan. 1882 (sub n. 3453).

348. SEPTORIA? BAMBUSELLA Speg. (n. sp.)

Diag. Maculae amphigenae, ellipticae, subindeterminatae, (1-2‴ × 0,5-1‴ diam.), ferrugineae; perithecia epiphylla, *superficialia*, globulosa (120-140 diam.), subverruculosa, glabra, atra, subastoma, 2-3-aggregata, crassiuscule membranaceo-coriacella, pellucida, contextu olivaceo grosse parenchymatico-celluloso; sporulae bacillari-subfusiformes, sursum attenuatae acutae, saepeque subcurvulae, deorsum minus attenuatae ac subtruncatae (30-60 × 2-3), 3-5-septatae, hyalinae.

Hab. Ad folia viva *Chusqueae tenuiglumis* socia *Pucciniospora* prope *Villa Rica*, Jan. 82 (sub n. 3441).

Obs. Species pulchella facile typum novi generi sistens.

349. SEPTORIA BALANSAE Speg. (n. sp.)

Diag. Maculae parum manifestae, indeterminatae, effusae, centro fuscescentes, pallescenti-areolatae (3-10‴ diam.), subamphigenae; perithecia in maculis laxe aggregata, lenticularia (90-100 diam.), atra, subepidermica, membranacea, ostiolo rotundo

pertusa, contextu subindistincte parenchymatico fusco-olivaceo ; sporulae lineares, utrinque acutiusculae, falcatae v. hamatae (12-18 × 0,5-1), hyalinae non v. obscure pluriseptatae.

Hab. Ad folia viva *Bidentis helianthoidis* (sub n. 3560), et *Verbesinae* speciei (sub n. 3790), prope *Pirayú* et *Paraguarí*.

350. Septoria caa-guazúensis Speg. (n. sp.)

Diag. Maculae epiphyllae, determinatae, irregulariter angulosae, aridae, griseae, facile frustulatim secedentes; perithecia sparsa, atra, lenticularia (80-90 diam.), membranacea, ostiolo impresso zona coriacella cincto pertusa, atra, contextu parenchymatico, olivaceo pellucido; sporulae cylindraceo-elongatae, utrinque obtusae (16-20 × 1,5), subindistincte 2-3-septatae, nubilosae, hyalino-chlorinulae.

Hab. Ad folia viva *Myrtaceae* cujusdam in sylva subvirginea *Caá-guazú*, Jan. 82 (sub n. 3472).

351. Septoria hu Speg. (n. sp.)

Diag. Maculae nullae v. pallescentes, effusae, indeterminatae, amphigenae; perithecia sparsa v. aggregata, lenticularia (100 diam.), atra, membranacea, ostiolo papillulato pertusa, contextu grosse parenchymatico, pellucido, olivaceo; sporulae cylindraceo-elongatae (18-20×2), utrinque subtruncato-rotundatae, rectae v. curvulae, medio 1-septatae, non constrictae, hyalinae.

Hab. Ad folia emortua dejecta in colle *Cerro hú* vocato prope *Paraguarí*, Oct. 1881 (sub n. 3436).

352. Zythia lonchosperma Speg. (n. sp.)

Diag. Perithecia subiculo compactiusculo, albo, ex hyphis rectis non v. ramosis (2 crass.), hyalinis, septulatis, composito, insidenti-aggregata, globulosa v. subovata (200-250 diam.), carnea-aurantia, glabra v. minutissime squarruloso-puberula, membranacea, contextu indistincto circa ostiolum hyalino, caeterum sanguineo; sporulae lanceolatae (28-30 × 4-5), nubilosae, sursum attenuato-acutissimae, deorsum sub-attenuatae, truncatae, pedicello parvulo a matrice secedente auctae, hyalinae.

Hab. Ad *Cocci* emortui speciei cujusdam in foliis putrescentibus *Laurineae* indeterminatae, prope *Peribebuy*, Jul. 1883 (sub n. 3867).

353. ZYTHIA LANCISPORA Speg. (n. sp.)

Diag. Maculae nullae v. vix manifestae, fuscescentes; perithecia epiphylla, globulosa, majuscula (250-300), adnato-superficialia, fusca v. fulvescentia, glabra, rugulosa, carnosula, mycelio asteromaceo, parum evoluto insidentia, contextu indistincto, circa ostiolum papillulatum vix manifestum nigrescente, caeterum fulvo; sporulae lanceolatae (12-14 × 2,5-3), rectae v. vix curvulae, sursum attenuato-acutae, deorsum attenuato-truncatae, nubilosae, pedicello a matrice non secedente brevi acrogenae, hyalinae.

Hab. Ad folia viva *Bambusaceae* cujusdam prope *Naranjo,* 24 Maj. 1883 (sub n. 3829).

354. ZYTHIA NECTRIOLA Speg. (n. sp.)

Diag. Maculae amphigenae, parvulae (2-3‴ diam.), indeterminatae, pallescentes, parum manifestae; perithecia hypophylla, sparsa, globosa, minutissima (60-80 diam.), griseo-alba, tenuissime membranacea, astoma, rugulosa, subiculo mucoso, hyphis exillimis parum manifestis efformato insidentia; sporulae ellipticae v. subcylindraceae (4-6 × 1), utrinque rotundatae, rectae v. inaequilaterales, hyalinae.

Hab. Ad folia languida *Commelinae* speciei cujusdam, in sylvis valleculae *Yakan* vocatae, inter *Paraguarí* et *Valenzuela*, Mart. 1883 (sub n. 3765).

355. LEPTOTHYRIUM GLOMERULATUM Speg.=Fung. Arg. pug. III, p. 37, n. 129.

Hab. Ad corticem vivum ramulorum *Ipomeae gossypioidis* prope *Paraguarí,* Febr. 1881 (sub n. 2752).

Obs. Perithecia vere dimidiato-scutata.

ASTEROSTOMELLA Speg. (n. gen.)

Diag. Perithecia dimidiato-scutata, subiculo fumagineo insidentia, radiato-dehiscentia; sporulae simplices, fuligineae. Status stylosporicus generis *Seynesiae* Sacc.

356. ASTEROSTOMELLA PARAGUAYENSIS Speg. (n. sp.)

Diag. Maculae nullae; subiculum amphigenum, laxe radians, plagulas fusco-atras, orbiculares (2-3‴ diam.), saepe confluentes ac totum folium obtegentes efficens, ex hyphis laxe ramoso-in-

tricatis, omnibus repentibus, dense septatis, gracilibus (2,5–3,5 crass.), fuligineis compositum; perithecia orbicularia, dimidiato-scutata, parvula (50-90 diam.), atra, glabra, laevia, per aetatem centro radiatim laciniato-dehiscentia, rigidule membranacea, contextu prosenchymatico-radiante, pellucido, olivaceo, fuligineo, margine plus minusve fimbriatulo-appendiculata; sporulae ovoideae, non v. grosse 1-guttulatae (14-20 × 8-14), fuligineae, in sterigmatibus brevibus, hyalinis mox diffluentibus acrogenae.

Hab. Ad folia viva plantarum in tota fere ditione paraguayensi per annis 1881-83.

Obs. Specimina nonnihil inter se mensuris discrepant et facile varietates distinctas sistunt:

a) sub n. 2740. Perithecia 50-80 diam., margine definite fimbriata; sporulae inferne acutato-subtruncatae 14-20 × 10-11, grosse 2-guttulatae v. diblastes. In Cestri specie.

b) sub n. 3809. Perithecia 80-90 diam., margine non v. vix fimbriata; sporulae inferne acutato-rotundatae 20 × 12-14, minute 1-v. 2-guttulatae. In Rutacea.

c) sub n. 3841. Perithecia 50-60, margine non v. vix fimbriata; sporulae inferne acutato-rotundatae 15-18 × 8-10, non guttulatae. In Cestri specie altera.

LASMENIA Speg. (n. gen.)

Diag. Peritheciorum characteres *Melasmiae*, sed sporulae fuligineae v. coloratae, simplices.

357. LASMENIA BALANSAE Speg. (n. sp.)

Diag. Stromata hypophylla, minuta (0,3-0,6 diam.), irregularia, subepidermica, densiuscule sparsa, nunquam confluentia, atra, laevia, glabra; loculi 1 v. 2 in quoque stromate, irregulares, albo-farcti; sporulae ellipticae, utrinque obtusae (15-20 × 8-9), non v. grosse 1-guttulatae, fuligineae, muco subfilamentoso, immerso–obvallatae.

Hab. Ad folia viva *Eugeniae* speciei in *Cerro Hu*, prope *Paraguarí*, Nov. 1882 (sub n. 3750).

Obs. Species pulchella excrementa aphidum v. muscarum eximie simulans, ad *Melanconideas* nonnihil vergens.

358. LASMENIA GUARANITICA Speg. (n. sp.)

Diag. Maculae hypophyllae, indefinitae suborbiculares (2-3‴ diam.) arescenti-fulvescentes, centro nigro-papillatae; stromata epiphylla, atra, irregulariter suborbicularia, pulvinatula, parvula (1-3‴ diam.), glabra, sublaevia v. undulatula, coriacella; loculi pauci in quoque stromate, laxe constipati, hemisphaerico-angulosi (150-200 diam.), nucleo fusco farcti; sporulae discoideae (5-7 diam.) e latere compressae (2-2,5 crass.) saepeque concaviusculae, grosse 1-guttulatae, fuligineae, inferne subangulato-apiculatae, ibique saepe caudicula (apice sterigmatum) hyalina auctae; sterigmata conoideo-elongata v. subampulluliformia (7-8 × 1), hyalina, apice secendentia.

Hab. Ad folia viva *Achatocarpi* speciei cujusdam in sylvis prope *Paraguarí*, Jul. 1883 (sub n. 3785).

359. **Melophia anonae** Speg. (n. sp.)

Diag. Maculae nullae v. epiphyllae, minutae (0,5-1‴ diam.), obscure ferrugineae; stromata epiphyllo innata, atra, macularum centro insidentia, vix prominula, parvula (0,5-0,7‴ diam.), atra, glabra, laevia, irregulariter elliptica, loculi in quoque stromate pauci v. solitarii, subdifformes, nucleo albo farcti; sporulae aciculares v. fusoideo-lineares, rectae v. subflexuosae, utrinque acutiusculae (15-20 × 0,7-0,8), hyalinae.

Hab. Ad folia languida *Anonaceae* speciei cujusdam in sylvis prope *Paraguarí*, Dec. 1881 (sub n. 3440).

360. **Melophia phyllachoroides** Speg. (n. sp.)

Diag. Maculae nullae; stromata amphigena, minuta (0,3-0,6‴ diam.), sparsa, atra, laevia, glabra, coriaceo-subcarbonacea, duriuscula; loculi pauci, irregulares, ostiolo majusculo donati, nucleo albo farcti; sporulae aciculares v. lineari-fusoideae, leniter subfalcatae, non v. medio 1-septatae (25-32 × 2-2,5), utrinque acutatae, apice magis acuminatae, nubiloso farctae, hyalinae.

Hab. Ad folia viva *Oplismeni* speciei minutae prope *S. Tomas*, Nov. 1882 (sub n. 3737).

361. **Melophia nigrimacula** Speg. (n. sp.)

Diag. Maculae epiphyllae, sparsae, majusculae (3-6‴ diam.), suborbiculares, subdeterminatae, centro nigro, areola, fulva linea fuscescente marginata, cincto; stromata parte centrali nigra macularum insidenti-innata, non pulvinata, vix rugulosa (2-4‴

diam.), coriacella, contextu indistincto, fusco-olivaceo; loculi sparsi, minuti, subglobosi (70-80 diam.), albo farcti; sporulae fusoideae v. aciculares, utrinque acutae (16-18 × 1), hyalinae.

Hab. Ad folia coriacea viva *Myrtaceae* speciei cujusdam in dumetis prope sylva *Caá-guazú,* Jan. 1882 (sub n. 3498).

362. **Melophia nitens** Speg. (n. sp.)

Diag. Maculae nullae; stromata epiphylla subcarbonacea, atra, nitentia, sparsa, minutissima (0.3-0.5‴ diam.); loculi 1-2 in quoque stromate, subglobosi (150-200 diam.), nucleo albo farcti; sporulae, lineari-subfusoideae, falcatae, utrinque acutae (12-15 × 1), hyalinae.

Hab. Ad folia viva *Eugeniae* speciei cujusdam, in sylva subvirginea *Caá-guazú*, Jan. 1882 (sub. n. 3483).

363. **Melophia ruprechtiae** Speg. (n. sp.)

Diag. Maculae amphigenae, indeterminatae, suborbiculares (2-3‴ diam.), areola pallescenti saepe cinctae; stromata centro macularum inidentia, irregulariter suborbicularia (1-2 ‴diam.), vix v. non prominula, fusco-ferruginea, intus alba; loculi hemisphaerici, angulosi, dense constipati, minuti (80-90 diam.), nucleo melleo farcti; sporulae filiformi-clavulatae, utrinque acutiusculae, subfalcatae v. undulatae (20 × 1), hyalinae.

Hab. Ad folia viva *Ruprechtiae polystachyae* Gr. in *Pastoréo de Caá-guazú,* Jan. 1882 (sub n. 3538).

364. **Protostegia pleromatum** Speg. (n. sp.)

Diag. Maculae nullae v. effusae saepeque totum folium occupantes; perithecia atra sparsa, epidermide nigrificata velata, primo hemisphaerico-prominula, dein 3–4–laciniato–fissa, disculo concavo, contextu crassiusculo, subcarnosulo, minutissime ac subindistincte celluloso–parenchymatico, olivaceo–fuligineo; sporulae lineari-filiformes, non v. vix subfusoideo-clavulatae (75-80 × 1-2), subindistincte 1–5–septatae, utrinque obtusiuscule acutatae, hyalinae.

Hab. Ad folia viva *Pleromatis* speciei cujusdam in sylva subvirginea *Caá-guazú,* Jan. 1882 (sub. n. 3448).

365. **Dinemasporium graminum** Lév.

Hab. Ad culmos dejectos putrescentes *Sacchari officinarum,* prope *Guarapí,* Maj. 1881 (sub n. 2811).

Obs. Sporulae cylindraceae (10-15 × 1,5-2), nubilosae, hyalinae, utrinque rotundato-inaequilaterales, setula tenuissima aequilonga auctae.

MUNKIA Speg. (n. gen.)

Diag. Stromata globosa v. lenticulari-hemisphaerica, ramulicola, pleurogena, majuscula, punctulata, intus suberoso v. floccoso compacta, alba, cortice vix distincto; loculi stromate infossi, subcupulato-aperti, hyphis penicillatim exilientibus farcti; hyphae simplices, cylindraceae, rectae, sporulae globosae, simplices, hyalinae, in hyphis pleurogenae.

Obs. Genus perquam singulare, nullo alio affine, ad interim hoc loco in sistemate inscripta, facile inter *Nectrioideas* recensenda, ac status *Hypocreellae* cujusdam stylosporicum sistens.

Genus viri sapientissimi, scientiae martyre, Eberhardt Munk von Rosenscheld memoriae dicatum.

366. MUNKIA MARTYRIS Speg. (n. sp.)

Diag. Stromata globoso-lenticularia (6‴ diam. × 4-5‴ crass.), dura coriacella, ramulis pleurogene adnata, ibique irregulariter applanata v. rimula parum profunda percursa, ramuloque non v. vix incrassato et infuscato, extus sordide grisea, tota (basi v. parte infera excepta) punctulis densiusculis albis tomentellis dense inspersa, intus alba, flocculoso-compacta; loculi subglobulosi (200-300 diam.) spatio duplo separati, numquam confluentes, parum insculpti, ostiolo latissimo (150-200 diam.) donati, hyphis fasciculatis longe ex eo penicillatim exilientibus; hyphae liberae totum cavum loculorum implectentes, longissimae, graciles (450-600 × 2,5), cylindricae, inferne non v. vix attenuatae, simplices, rectae, non v. remotissimae septulatae, apice truncato-evanidae, parte loculis inclusa laevi, exerta autem papillis minutissimis laxe ornata; sporulae globosae v. inferne nonnihil depressae (2,5-3,5 diam.), grosse 1-guttulatae, hyalinae, papillis pleurogenis hypharum solitarie fultae.

Hab. Ad ramulos hornotinos *Bambusaceae* in paludosis prope *Guarapí*, 1881 (sub n. 2787).

MELANCONIEAE Berk.

367. GLOEOSPORIUM AMPELOPHAGUM (Pass). Sacc.

Hab. Ad baccas vivas *Vitis viniferae* in cultis prope *Paraguarí*, Nov. 1881 (sub n. 3478).

368. GLOEOSPORIUM GUARANITICUM Speg. (n. sp.)

Diag. Maculae amphigenae determinatae, repando-orbiculares (2-6‴ diam.), subarescentes pallideque fulvescentes, determinatae, zona obscuriore strictissima, vix perspicua limitatae, saepius centro cinerascentes; acervuli epiphylli sparsi, subcutanei, vix pulvinatuli, parvuli (80-100 diam.), fulvescentes; sporulae elliptico-inaequilaterales v. cymbaeformes, utrinque rotundatulae (7-8 × 1,5), hyalinae, in sterigmatibus, e strato proligero subindistincte sinuoso-parenchymatico, tenui, fusco exsurgentibus, filiformibus (10-15 × 0,5-0,7), hyalinis solitarie acrogenae.

Hab. Ad folia viva *Sapindaceae* speciei cujusdam in sylvis prope *Guarapí*, Jan. 1880 (sub n. 3562).

369. GLOEOSPORIUM? ACHATOCARPI Speg. (n. sp.)

Diag. Maculae amphigenae, orbiculares (1-2‴ diam.), determinatae, primo fuscae, dein griseo-arescentes, areola nigrescente stricta cinctae, postremo frustulatim deciduae ac folium perforatum relinquentes; acervuli subcutanei, lenticulares, centro macularum laxe insidentes, fusciduli, vix perspicui (50-60 diam.), epiphylli; sporulae e strato proligero fuscidulo immediate oriundae, cylindraceae, utrinque rotundato-truncatae (an primo catenulatae?), parvulae (5-7 × 1), hyalinae.

Hab. Ad folia viva *Achatocarpi* speciei cujusdam prope *Villa Rica*, Jan. 1882 (sub n. 3450).

370. GLOEOSPORIUM AECIDIOPHYLUM Speg. (n. sp.)

Diag. Maculae epiphyllae v. ramulicolae, minutae (0,5-1‴ diam.), fuscescentes vix manifestae, effuso-indeterminatae, saepius aecidia circumdantes; acervuli 2-5-stipati, e globoso difformes (80-90 diam.), pulvinatuli, epidermide velati, vix perspicui; sporulae ellipticae, rectae v. inaequilaterales (10 × 2,5), utrinque subtruncato-rotundatae (an catenulatae?), hyalinae, in

sterigmatibus filiformibus, crassiusculis (12-20 × 1,5-2), hyalinis acrogenae.

Hab. Ad folia viva *Hyptidis* speciei cujusdam, socio *Aecidio Gibertii* Speg., in dumetis prope *Arroyo-Guazú* in sylva *Caá-guazú*, Jan. 1882 (sub n. 3563).

Obs. Species ad *Tuberculinam* Sacc. satis vergens, ac in *Aecidio* videtur parasita!

371. **Gloeosporium fulvellum** Speg. (n. sp.)

Diag. Maculae hypophyllae, sparsae, parvulae (1-2‴ diam.), effuso-indeterminatae vix manifestae, fulvellae v. subferrugineae; acervuli subcutanei 3-8 macularum centro insidentes, lenticulari-pulvinatuli (150-200 diam.), fulvi v. pallide ferruginei, sporulae ellipticae (5-6 × 2-2,5), utrinque rotundatae, nubilosae, hyalinae; sterigmata non visa.

Hab. Ad folia viva *Rhamneae* speciei cujusdam prope *Peribebuy*, Jun. 1883 (sub n. 3860).

372. **Gloeosporium marginale** Speg. (n. sp.)

Diag. Maculae strictae (0,5‴ lat.), plus minusve longe folia marginantia, determinatae, albo-griseae, zona rugulosa obscure fulvescente limitatae; acervuli dense sparsi, atri, subcutanei, orbiculares (120–150 diam.), saepe confluentes; sporulae ellipticae v. ovoideae (10-13 × 5-5,5), utrinque latissime rotundatae, hyalinae, nubilosae, sterigmatibus papillaeformibus (5-6 × 3-4), e strato proligero, parenchymatico, fuscidulo oriundis, hyalinis acrogenae.

373. **Marsonia Lorentzii** Speg. (n. sp.)

Diag. Maculae amphigenae atrae, stromaticae, coriaceae, determinatae, minutae (0.5-0,7‴ diam.), sparsae; acervuli in quoque macula saepius solitarii, subcutanei, per aetatem lacero-erumpentes, fusci, lenticulares (100-120 diam.); sporae cylindraceo-clavulatae (17-18 × 3,5) sursum obtuse rotundatae, inferne truncatae, medio 1-septatae, non constrictae, hyalinae, in sterigmatibus papillaeformibus, vix prominulis acrogenae.

Hab. Ad folia viva *Quebrachiae Lorentzii* in sylvis prope *Yaguaron*, Dec. 1881 (sub n. 3476).

Obs. Species ad *Sphaerioideas* v. *Leptostromaceas* notis nonnullis accedens.

374. **Pestalozzia versicolor** Speg. (n. sp.)
Var. *guaranitica.*

Diag. Maculae irregulares; determinatae (3-5‴ diam.), sordide griseo-aridae, per aetatem frustulatim deciduae; glomeruli epiphylli, dense sparsi, lenticulares (90-100 diam.); sporulae fusoideo-ellipticae, medio tumidulae, utrinque acutae (20-25×12-16), 5 loculares, loculis duobus extimis hyalinis, duobus intermediis fusco-flavescentibus, intimo autem olivaceo opaco, apice saetulis 2 simplicibus oppositis, crassiusculis (20-22×1) coronatae, basi pedicello tenuissimo (8-10×0,5), hyalino fultae.

Hab. Ad folia viva *Myrtaceae* foliis crasse coriaceis donatae in sylva *Caá-guazú,* Jan. 1882 (sub n. 3472).

375. **Cylindrosporium ? aureum** Speg. (n. sp.)

Diag. Maculae epiphyllae, indeterminatae, parum manifestae, fuscescentes, latiusculae (3-15‴ diam.), saepe totum folium ambientes, irregulariter effusae; acervuli laxe in maculis aggregati, parvuli (80-90 diam.), lenticulares, epidermide infuscata centroque ostiolato-perforata (an perithecium rudimentale scutiforme?) tecti; sporulae in cirrhos aureos protrudentes, subfusoideo-lineares, hamatae v. falcatae, utrinque acute rotundatae (12-15×1), continuae, hyalinae.

Hab. Ad folia viva *Tecomae* speciei cujusdam in sylvis prope *Guarapí,* Dec. 1882 (sub n. 2726).

Obs. Species pulchella mox distincta ob matricem cirrhis subpulveraceis aureis inspersam, facile ad *Melophiam* v. *Septoriam* transferenda perithecii rudimentali causa.

HYPHOMYCETEAE Mart.

MUCEDINEAE Fr.

376. **Helicomyces ? larvaeformis** Speg. (n. sp.)

Diag. Subiculum latissime effusum, crassiuscule pulvinatum (0,5-1‴ crass.), gossypino-v. arachnoideo -pulverulentum, friabillimum, amoene pallideque carneum v. subaurantio-roseum; hyphae non visae; conidia arcuata, hippocrepica v. anulato-

incurva fusoidea, antice attenuata, postice subcuneata, utrinque obtusiuscule acutata, guttulis ventralibus, 3 v. 5 cuboideis v. subconicis donata (20-25×10), hyalina.

Hab. Ad *Strychnodaphnis suaveolentis* ramulos hypertrophicos (microphyti v. caecidii caussa), nec non ad ejusdem baccas exsiccatas prope *Mbatobí* et *Guarapí,* per ann. 1882-83 (sub n. 3758 et 3779).

Obs. Species pulchella facile novi generis typum sistens; conidia ventre visa subtrisinuata, e latere *anguillula* v. *hirudine* contracta simillima.

377. **Oidium erysiphoide** Fr.

Hab. Ad folia viva *Sinapis nigrae* (sub n. 3757), *Acanthaceae* cujusdam (sub n. 3813), et *Cassiae* speciei ignotae (sub n. 3812) vulgatum per totum *Paraguay* per ann. 1882-83.

378. **Cephalosporium acremonium** Cda.

Hab. Ad cœspitulos *Cercosporae* speciei cujusdam in foliis *Commelinae* in sylva *Caa-guazú,* Jan. 1882 (sub n. 3531).

379. **Aspergillus glaucus** Lk.

Hab. Ad cortices putrescentes fructuum *Citri aurantii* prope *Guarapí,* Jan. 1883 (sub n. 3895).

380. **Aspergillus phaeocephalus** Dur. et Montg.

Hab. Ad flores masculos putrescentes *Olyrae* speciei in sylva *Naranjo,* Jun. 1883 (sub n. 3859).

381. **Penicilium glaucum** Lk.

Var. *Crustaceum* Fr.

Hab. Ad cortices putrescentes fructuum *Citri Aurantii* prope *Guarapí,* Jan. 1883 (sub n. 3895).

382. **Sporotrichum peribebuyense** Speg. (n. sp.)

Diag. Pulvinuli hypophylli, adnato-superficiales, lineares, sparsi v. hinc inde laxe aggregati, majusculi (1-5‴ long. × 0,5-1‴ crass.), pulvinulati, gossypino-tomentosuli, compactiusculi albi v. pallidissime rosei; hyphae omnes repentes, dense intricato-ramosae, crassiusculae (5-5,5 crass.), densiuscule septatae, sterigmatibus papillaeformibus, sparsis, minutissimis hinc inde ornatae,

hyalinae; conidia globosa, laevia (an per aetatem ruguloso-asperula?), majuscula (6-8 diam.), nubiloso-guttulata, hyalina.

Hab. Ad folia viva *Setariae* speciei elatae in montuosis *Cordillera de Peribebuy* vocatis, Mart. 1881 (sub n. 2749).

Diag. Species pulchella *Ramulariae? roseae* Speg. Fung. Arg., pug. IV, n. 385 habitu simillima.

383. RHINOTRICHUM CANESCENS Speg.=Fung. Arg., pug. II, n. 162.

Hab. In acervulis *Cercosporae sphaeroideae* ad folia *Cassiae* speciei in sylvis prope *Villa Rica,* Jan. 1882 (sub n. 3527).

Obs. Hyphae fertiles erectae, breves, simplices, cylindraceae, apice minute laxeque denticulatae; conidia globosa (3-4 diam). non v. inferne angulato subapiculata (an catenulata?), 3-8 in quoque ramulorum apice pleurogene adnata.

384. RHINOTRICHUM CANESCENS Speg.

Var. *speciosulum* Speg.

Diag. Mycelium laxissimum, arachnoideum, vix manifestum, album; hyphae steriles repentes, gracillimae, dense ramulosae, continuae v. remote sep ulatae; hyphae fertiles (2-3 crass), adsurgenti-erectae, continuae, saepius 2-3 ramosae; ramis saepe ramulis et ramululis oppositis donatis, hinc inde constrictis, apiceque dense aspero-sterigmatosis; conidia in ramulorum apice 3-30-adnato subcapitata, minuta, globosa v. ovoidea (3-4×2-3), inferne angulato-acutata, hyalina.

Hab. In coespitulis *Cercosporae spheroideae,* ad folia viva *Cassiae* speciei prope *Guarapí,* Jun. 1883 (sub n. 3805).

385. RHINOTRICHUM GOSSYPINUM Speg. (n. sp.)

Diag. Mycelium arachnoideo-effusum, tenuissimum, vix manifestum, album; hyphae steriles repentes, continuae, graciles (2-3 crass.), laxe ramoso-intricatae; hyphae fertiles erectae, hinc inde in hyphis sterilibus, densiuscule exurgentes, cylindraceo-conicae, breviusculae (12-15×1), rectae, continuae, hyalinae, apice acutae, laeves; conidia in apice hypharum fertilium, acro-pleurogena, densiuscule aggregata, sessilia, elliptico-limoniformia (2,5-3×1,5-2), utrinque acuta v. apiculata, hyalina.

Hab. In acervulis *Cercosporae caricae* Speg. ad folia *Caricae papayae* prope *Posta-cué,* Jun. 1883 (sub n. 3855).

386 **Moniliá microspora** Speg. (n. sp.)

Diag. Acervuli amphigeni, sparsi, maculas depresso-pulvinatulas, majusculas (2-5‴ diam.), irregulares, crustaceo-pulveraceas, sordide albo-flavescentes, hinc inde efformantes; hyphae omnes repentes, continuae v. remotiuscule parcissimeque septulatae, graciles (2-3 crass.), subdiffluentes, dilutissime flavescentes, dense ramosae, ramululis breviusculis, subadsurgentibus, subflexuoso-geniculatis, hinc inde irregulariter laxissimeque noduloso-papillulatis, donatae; conidia ex papillis ramulorum oriundae, cylindraceo-ellipsoideae, utrinque late truncatae (4-5×2,5-3), laeves, catenulatae pallide flavescentes.

Hab. Ad folia dejecta putrescentia *Citri aurantii* prope *Guarapi*, Jul. 1883 (sub n. 3869).

387. **Spicaria elegans** *(Cda.)* Harz.

Var. *macrostachya* Speg.

Diag. Acervuli latissime effusi, primo gossypino-tomentosuli, dein pulverulento-difformes, candidi; hyphae fertiles erectae, simplices, rectae (50-80×5), hyalino-continuae, apice capitato-ramulosae; ramuli densiusculi, primarii arcuato-adscendentes, cylindrici, vix sursum attenuati, opposito-decussati, ad apicem secundarios cylindraceo-ampulliformes, utrinque rotundatos (10×2), continuos, 4-6-verticillato-aggregatos gerentes; conidia in ramulis secundariis acrogena, spicas praelongas, cylindraceas, rectas, erectas (160-180×10) efficientia, cylindracea v. elliptica, utrinque obtuse rotundata v. subtruncata (4-5×1,5-2) hyalina, eguttulata.

Hab. Ad legumen plantae ignotae putrescens in montuosis prope *Peribebuy*, Mart. 1883 (sub n. 3777).

Obs. Forma perpulchra et facile species autonoma sistens.

388. **Cephalothecium macrosporum** Speg. (n. sp.)

Diag. Mycelium laxe arachnoideum, adnato-effusum, tenuissimum, album; hyphae steriles repentes densiuscule ramosulae, continuae v. parcissime septulatae, crassiusculae (3-5 crass.), hyalinae; hyphae fertiles hinc inde laxissime adsurgentes, continuae v. saepius 3–5–septatae, cylindraceae, breviusculae, erectae, graciles (35-60×1-2), rectae v. vix flexuosulae, sursum sensim attenuatae, apice minute abrupteque noduloso-sterigmatophorae, hyalinae; sterigmata minutissima, vix per-

spicua 6-10 aggregata; conidia in sterigmatibus acrogena, subcapitata, elliptica v. elliptico-subclavulata, elongatula (10-18 × 2,5), utrinque obtusiuscula, medio 1-septata, non constricta, loculo infero quam supero saepius crassiore, hyalina.

Hab. Ad stromata viva *Schneepiae guaraniticae* Speg. in foliis *Styracis* speciei in valle *Ja-kan* vocata, Mart. 1883 (sub n. 3763).

389. CERCOSPORELLA GOSSYPII Speg. (n. sp.)

Diag. Maculae nullae; mycelium hypophyllum, candidum, plagulas effuso-pulverulentas, parvulas (1-2‴ diam.), saepe confluentes, irregulares efficiens; hyphae in coespitulos laxe aggregatae, simplices, erectae, rectiusculae, laxe parceque nodulosae, apice obtusiusculae (35-40 × 3), hyalinae (an longitudinaliter rugosae?); conidia cylindraceo-elliptica v. subclavulata, medio 1-septata (rarius 2), non v. vix subcoarctata, utrinque acutiuscula (18-25 × 3-4), hyalina.

Hab. Ad folia *Gossypii* speciei cujusdam prope *Paraguarí*, Maj. 1883 (sub n. 3856).

390. CERCOSPORELLA PSEUDOIDIUM Speg. (n. sp.)

Diag. Maculae epiphyllae, pallescentes, indeterminatae, suborbiculares, parum manifestae; mycelium hypophyllum, tenuissimum, adnatum, laxe arachnoideum, effusum, plagulas albas, suborbiculares, saepe totum folium ambientes efficiens; hyphae steriles repentes, dense intricato-ramosae, parce septulatae, graciles (5 crass.), hyalinae; hyphae fertiles, hinc inde adsurgentes, erectae, rectae v. modice parceque noduloso-subgeniculatae, apice nodulosae (30-80×5), continuae v. 2-3-septatae, hyalinae; conidia clavulata v. vix inaequilateralia, nubilosa v. granulosa, hyalina.

Hab. Ad folia viva *Manihot utilissimae* prope *Mbocaiatá*, Mart. 1882, et prope *Caá-guazù*, Jan. 1882 (sub n. 3533-3781).

DEMATIAE Fr.

391. ZYGODESMUS GUARAPIENSE Speg. (n. sp.)

Diag. Acervuli primo epidermide tecti, dein, eaque tabescenti-evanescente, nudi ac superficiales, majusculi (2-5‴×1-1,5‴), eliptici

v. confluenti-lineares atque longissimi, longitudinales, crassiusculi (0,2-0,3‴ crass.), compacto-pulverulenti, subcrustacei, margine non v. vix repandi, obtusi, atri; hyphae paucae, parum ramosae, repentes, rectiusculae septatae, graciles (1,5-2 crass.), laxe noduloso-tuberculatae, hyalinae; conidia tuberculis hypharum adnata, numerosissima, globosa v. e mutua pressione angulosa v. elongata (5-9×3-5), saepeque utrinque acuta ac inferne subapiculata, opaca, olivacea, laevissima.

Hab. Ad culmos dejectos putrescentes *Saccharum officinarum* L. prope *Guarapi*, Maj. 1881 (sub n. 2776).

CORDELIA Speg. (n. gen.)

Diag. Hyphae fuscae, biformes; steriles elongatae, fertiles breves v. vix evolutae, monosporae, omnes e strato proligero tenuissimo, contextu parum distincto donato, submucedineo oriundae; sporae globosae v. ellipticae, fuligineae, simplices in hyphis fertilibus acrogenae.

Genus habitum *Torulae* v. *Helminthosporii* eximie referens.

392. CORDELLA CONIOSPORIOIDES Speg. (n. sp.)

Diag. Acervuli superficiales lineares, saepe longissimi ac dense aggregati, saepius tenues, vix pulvinulati atro-subvelutini; hyphae e strato proligero submucedineo, subindistincte parenchymatico oriundae; steriles numerosissimae densissimeaque, conoideo-elongatae (15-24×1,5-4), continuae, basi inflatulae, sursum attenuatae saepeque flexuosulase, obtusae, simplices, laeves, fuligineo-atrae, pellucidae; fertiles parcissimae, hinc inde sparsae, minutae, globosae v. subangulosae (5-8 diam.), laeves, hyalinae v. fuscidulae, monosporae, saepe cum sporis secedentes; conidia globosa (11-17 diam.), rarius obtuse angulosa, episporio tenui, nubilosa, laevia, obscure fuliginea, pellucida.

Hab. Ad folia et culmos dejectos putrescentes *Bambusae* speciei cujusdam, prope *Guarapí* et *Caá-guazú* per ann. 1881-82 (sub n. 2804, 3505, 3735).

393. CORDELLA SPINULOSA Speg. (n. sp.)

Diag. Pulvinuli hispido-velutini, ozoniaceis, latissime effusi, superficiales, arcte matrici adnati, fuligineo-atri; hyphae e strato proligero crassiusculo, indistincte parenchymatico oriundae; steriles densissimae, graciles, longissimae (500-800×3), erectae,

rectae v. vix flexuosae, cylindraceae, densiuscule septulatae, obscure olivaceo-fuligineae, apice subclavulatae obtusissimae (5-8 crass.) atque pallidiores; fertiles numerosae, brevissimae, cylindraceo-flexuosae, continuae, apice obtusae (18-20×2,5), obscure fumosae; conidia elliptica v. ovoidea, recta v. navicularia utrinque acuta, saepeque subapiculata (18-20×13-15), non v. grosse 1-guttulata, laevia, opace fuliginea.

Hab. Ad cortices ramorum truncorumque putrescentes in sylvis prope *Guarapí,* 1881 (sub n. 2793 et 2796).

394. **Myxotrichum chartarum** Kze.

Hab. Ad chartam putrescentem dejectam in Paraguay (*Lév.* Champ. exot., Ann. Sc. Nat. Ser. II, vol. 3, pag. 66).

395. **Fusicladium? dubiosum** Speg. (n. sp.)

Diag. Maculae parvulae (0,5-1,5‴ diam.), orbiculares v. ellipticae, saepe confluendo elongatae, flavescenti-albae, subdeterminatae, saepius areola rubescente cinctae, amphigenae; coespituli centro macularum insidentes, dense constipati, minutissimi, velutini, olivacei; hyphae erectae, cylindraceae saepeque e latere compressae, apice leniter cuneato-acutatae (40-80×5), 2-3-septatae, ad septa non v. vix constrictae, sordide obscureque fumosae; conidia clavulato-pyriformia (15×7), 1-septata, leniterque constricta, loculo supero brevi depresso obtusissimoque, infero conico triplo longiore acuto, nubilosa, subhyalina.

Hab. Ad folia viva *Digitariae* speciei cujusdam prope *Guarapí,* Dec. 1882 (sub n. 3517).

396. **Cladosporium herbarum** Lnk.

Hab. Ad folia dejecta *Nicotianae tabaci* (sub n. 3890) prope *Peribebuy,* et *Sacchari officinarum* (sub n. 2790 et 3733) prope *Guarapí* per ann. 1881-82.

Obs. Conidia in specimina guaranitica magnitudine ludentia, saepius elliptico-limoniformia ac continua, initio dichotomice catenulato-proligera !

397. **Helminthosporium caaguazuense** Speg. (n. sp.)

Diag. Maculae nullae; epiphyllum, laxissime arachnoideo-effusum, tenuissimum, atrum; hyphae steriles repentes, longe remoteque ramoso-intricatae, parce septatae, subgraciles (4 crass.), olivaceae; hyphae fertiles hinc inde sparse exurgentes, erectae, sub-

flexuosulae, crassiusculae (200-250 × 7-7,5), densiuscule septatae, saepeque subnodulosae, fuligineae, apice rotundatae, non v. vix attenuatae, dilutiores; conidia elongato-subfusoidea (50-60 × 8-9), recta, 5-7-septata, non constricta, sursum attenuato-rotundata, deorsum subcuneato-truncata, fuliginea.

Hab. Ad folia viva *Bambusaceae* cujusdam in *Pastoreo de Caá-guazú,* Jan. 1882 (sub n. 3445).

398. HELMINTHOSPORIUM BALANSAE Speg. (n. sp.)

Diag. Maculae nullae; amphigenum, laxissime arachnoideo-velutinum, atrum; hyphae steriles repentes mucedineo-subevanescentes, fuscae, parum manifestae; fertiles densiuscule hinc inde aggregatae, erectae, cylindraceae, rectae v. vix flexuosulae, apice obtusae, parce irregulariterque septulatae, non v. vix constrictae (100-120 × 4-5), olivaceo-fuligineae, pellucidae; conidia cylindraceo-elliptica, utrinque acutiuscule obtusata (20-30 × 6-8), 3-septata, non constricta, olivaceo-fuliginea pellucida.

Hab. Ad folia viva *Bambusaceae* cujusdam in sylva *Naranjo,* Maj. 1883 (sub n. 3829).

399. HELMINTHOSPORIUM PARAGUAYENSE Speg. (n. sp.)

Diag. Maculae nullae; epiphyllum laxe arachnoideo-velutinum, plagulas fuscas, effuso-orbiculares (2-4‴ diam.) efficiens; hyphae steriles mucedineo-evanescentes, repentes, parum perspicue; fertiles hinc inde penicillatim aggregatae, a basi liberae, erectae (100-150 × 4), cylindraceae, septulatae, flexuosae v. geniculatae, olivaceae, apice obtuse rotundatae ac pallidiores; conidia fusoidea v. fusoideo-clavata, recta v. vix curvula, superne acutata, inferne subtruncata (18-25 × 4), 3-septata, non v. vix constricta, loculis duobus internis obscure olivaceis, duobus extimis, pallidioribus, chlorinis.

Hab. Ad folia viva *Bignoniae* speciei cujusdam in sylva subvirginea *Caá-gaazú*, Jan. 1882 (sub n. 3497).

Obs. Species haec descriptae sub n. 397, 398, 399 statum conidicum *Meliolae* cujusdam ignotae sistunt.

400. HELMINTHOSPORIUM GUARANITICUM Speg. (n. sp.)

Diag. Corticolum, laxe tenueque velutinum, plagulas majusculas, effusas, irregulares, olivaceas efficiens; hyphae cylindraceae

erectae, longissimae crassiusculaeque (500-1000×10-11), densae, rectae v. vix flexuosulae, septulatae, deorsum atrae, sursum sensim dilutiores, apice vix v. non subinflatulae ac truncatae; conidia fusoideo-clavata v. hirudinea, majuscula (100-120×19-20), 11-13-septata v. nucleata, fuliginea, vertice rotundata, basi truncata.

Hab. Ad ramulos dejectos emortuos prope *Carapeguá,* Jul. 1883 (sub. n. 3826).

401. **Heterosporium ? callospermum** Speg. (n. sp.)

Diag. Pannoso-effusum, irregulariter subpulvinulatum, olivaceum; hyphae molliusculae repentes, dense intricato-ramosae, laxe remoteque septulatae, sursum suberectae, simplices v. brevissime 1-2-ramulosae v. noduloso-geniculatae (subinflatulae), apice obtuse rotundatae (4 crass.), dilute olivaceae; conidia e geniculis v. apicibus hypharum oriunda, elongato-elliptica, recta v. leniter inaequilateralia (30-60×12-13), utrinque obtusiuscule rotundata, episporio laevi donata, 3-5-locularia v. nucleata (septis parum v. non perspicuis), loculis v. nucleis 1-3-centralibus eximie cruciformibus, 2 extimis subconicis, dilute olivacea.

Hab. Ad spicas vivas *Sporoboli* speciei cujusdam in pratis prope *S. Barbara* et *Villarica*, Jan. 1882 (sub n. 3512).

Obs. Haec species vulgata etiam in agro montevideense secundum specimina a Cl. J. Arechavaleta mihi missa, nec non in provincia argentina Missionum a Cl. C. v. Gülich lecta.

402. **Cercospora cucurbitina** Speg. (n. sp.)

Diag. Maculae amphigenae minutae (0,5-1,5‴ diam.), arescenti-albae, irregulariter orbiculares, saepe angulosae v. confluendo difformes, eximie determinatae, non v. rarius zona fuscescenti parum perspicua cinctae; acervuli epiphylli rarius amphigeni, centro macularum insidentes, penicilliformes (150-180×40-50), fusci, solitarii v. sparsi, ex hyphis inferne subcoalescentibus, apice liberis, simplicibus erectis, densiuscule septulatis, gracilibus (3-4 crass.), dilute olivaceis, rectis, apice rotundatis v. 2-3-cicatricosis; conidia cylindraceo-elliptica, utrinque obtusiuscule rotundata, 3-5-septata, non constricta (30-40×4), chlorina.

Hab. Ad folia viva *Cyclantherae* ? speciei in sylva *Caá-guazú,* Jan. 1882 (sub n. 3514).

403. **Cercospora solimani** Speg. (n. sp.)

Diag. Maculae amphigenae, fuscescenti-atrae, suborbiculares (1-3‴ diam.), determinatae, rigido-coriaceae; acervuli centro macularum laxe insidentes, subpenicillati (80-150 × 3-3,5), ex hyphis gracilibus, elongatis (70-150 × 3-3,5) olivaceis, remote septulatis, basi subcoalescentibus, superne liberis compositi; conidia cylindraceo- v. fusoideo-clavulata, (30-40×4), fumosa v. chlorina, utrinque acutiuscule rotundata, 3-5-septata, non constricta.

Hab. Ad folia viva v. languida *Leguminosae* cujusdam cultae, vulgo *Soliman,* prope *Caá-guazú,* Jan. 1882 (sub n. 3492).

404. **Cercospora myrticola** Speg. (n. sp.)

Diag. Maculae epiphyllae majusculae (3-5‴ diam.), fusco-atrae, subindeterminatae, repando-angulosae; acervuli epiphylli laxe ac subseriate aggregati, olivacei, subhemisphaerici (20-30 × 20-90) ex hyphis brevibus, continuis?, gracilibus (2-2,5 crass.), rectis v. subcurvulis, basi coalescentibus, obscure ac subopace olivaceis, sursum liberis et fumosis compositi; conidia cylindraceo-fusoidea v. fusoideo-clavulata (20-75 × 2-2,5), saepius 3-septata v. multiguttulata, utrinque obtuse rotundata, chlorina.

Hab. Ad folia viva *Myrtaceae* cujusdam in sylva *Caá-guazú,* Jan. 1882 (sub n. 3472 et 3473).

405. **Cercospora vitis** (Lév.) Sacc.

Hab. Ad folia viva et languida *Vitis viniferae* prope *Paraguarí,* an. 1880 (sub n. 3461).

406. **Cercospora Balansae** Speg. (n. sp.)

Diag. Maculae hypophyllae, effusae, indeterminatae, olivascentes, saepe totum folium ambientes; acervuli in maculis laxe sparsi, ex hyphis liberis rectis v. saepe nodulosis v. geniculatis (50-100 × 5), parce septatis, olivaceis compositi; conidia cylindracea, utrinque obtusissime rotundata, 1-3-septata (20-35 × 5), dilute olivacea.

Hab. Ad folia viva *Evolvuli* speciei cujusdam in sylva *Caá-guazú,* Jan. 1882 (sub n. 3524).

407. **Cercospora leprosa** Speg. (n. sp.)

Diag. Maculae nullae v. hypophyllae, pallescentes, effusae, inde-

terminatae; acervuli hinc inde glomerulati, subvelutini, olivacei, ex hyphis liberis basi tantum fasciculatis, erectis, rectis, flexuoso-geniculatis, ad geniculos nodulosis, 1-3-septatis (60-80 × 5-6), olivaceis compositi; conidia elongato-subfusoidea, clavulata, superne acuta, inferne obtusato-subtruncata (40-75 × 3,5-5), recta v. leniter subfalcata, 3-5-septata, nubilosa e hyalino fumosa.

Hab. Ad folia languida *Tecomae* arboreae cujusdam in sylvis prope *Paraguarí* et *Peribebuy* per ann. 80-83 (sub n. 3509 et 3865).

Obs. Species oculo nudo facillime pro *Cladosporio herbarum* Lk. sumenda.

408. CERCOSPORA VASCONCELLIAE Speg. (n. sp.)

Diag. Maculae nullae v. amphigenae, pallescentes, parum manifestae, effusae, indeterminatae; acervuli hypophylli, hinc inde densiuscule aggregati, plagulas parvulas (0,5-5‴ diam.), sparsas v. confluentes, irregulares, olivaceas, velutinas efficientes, ex hyphis cylindraceis, dense stipatis, sed non coalescentibus, breviusculis ac crassiusculis (50-80 × 7-8), 2-3-septatis, ad septa constrictis, apice obtusissime rotundatis v. subtruncatis, articulis superis verruculoso-rugulosis, guttulatis, olivaceis compositi; conidia fusoidea v. elliptico-clavulata (20-30 × 6-7), fere subpyriformia, 3-4-septata, loculo infero saepius longiore angustioreque, ad septa non v. vix constricta guttulata, olivacea, loculis centralibus obscurioribus.

Hab. Ad folia viva *Caricae* (*Vasconcelliae*) *quercifoliae* in sylvis prope *Guarapí*, Jan. 1883 (sub n. 3857).

409. CERCOSPORA? CARICAE Speg. (n. sp.)

Diag. Maculae amphigenae, pallescentes, subdeterminatae, minutae (0,5-1‴ diam.), acervuli hypophylli, maculas totas occupantes, centro excepto, circinatim v. concentrice dispositi, dense aggregati, globosi (50-70 diam.), obscure e fuligineo olivacei, ex hyphis basi in sporidochio hyalino minute parenchymatico coalitis, superne tantum liberis ac unilocularibus, articulo elliptico v. fusoideo-clavulato (20-30 × 7-8), apice obtusato, saepeque subtruncato, ad angulos cicatricoso, pallide vinoso-chlorino donatis, compositi; conidia elliptica v. pyriformia, continua non v. 1-guttulata v. medio 1-septata, non constricta (10-20 × 7-10), episporio minute (saepe subimperspicue) ruguloso-papilluloso donata, pallide rubiginoso-olivacea, in hyphis solitaria v. 2-3-acrogena.

Hab. Ad folia viva *Caricae Papayae* prope *Guarapí* (sub n. 2739) et prope *Posta-Cuè* (sub n. 3855) per ann. 1881-83.

Obs. Species pulcherrima structura generi *Epicoccum* Link. peraffinis: an novi generis typum?.

410. **Cercospora stylosanthis** Spèg. (n. sp.)

Diag. Maculae fusco-rubiginosae, orbiculares v. confluendo repando-irregulares, majusculae, saepius ramulos ac ochreas totas ambientes, squamuloso-pustulosae; acervuli olivacei, hinc inde in maculis densiuscule erumpentes, compactiusculi, ex hyphis cylindraceis, continuis, rectis v. vix flexuosulis (35-50 × 5), apice truncatulis, rubiginosis, asperulo-rugulosis efformati; conidia cylindraceo-clavulata, recta v. vix flexuosa, 3-5-septata, nubilosa, rubiginosa, utrinque obtusiuscula (35-45 × 4-5) laevia.

Hab. Ad caules vivos *Stylosanthis* speciei cujusdam in sylva *Caáguazú*, Jan. 82 (sub n. 3528).

411. **Cercospora personata** (B. et C.) Ell. et Evrh.

Hab. Ad folia *Arachidis hypogeae* in cultis prope *Guarapí*, Maj. 1883 (sub n. 3806).

Obs. A typo recedit hyphis 2-3-septatis nec continuis (20-25 × 4-5), olivaceis, ac conidiis 3-5-septatis (35-40 × 6-7), olivaceis.

412. **Cercospora sphaeroidea** Speg. = Fung. Arg. pug. II, n. 148.

Hab. Ad folia *Cassiae* speciei prope *Villa Rica* et *Guarapí* per ann. 1882-83 (sub n. 3527 et 3804).

Obs. Specimina guaranitica a typo nonnihil recedunt et inter se etiam discrepant; an varietates v. species distinctae?

N. 3527. Maculae pallescentes, indeterminatae, orbiculares, amphigenae, majusculae (3-5‴ diam.), sparsae; acervuli amphigeni maculas totas ambientes, subglobosi, ex hyphis cylindraceis brevibus, sursum rotundatis, basi innato-truncatis, parvulis (20-30 × 4-5), curvulis, liberis, continuis, olivaceis efformati; conidia elongato-cylindracea v. clavulata (30-60 × 3-4), recta v. curvula, utrinque obtuse rotundata, intense chlorina v. fumosa.

N. 3804. Maculae amphigenae, sordide fuscae, coriaceo-arescentes subindeterminatae; acervuli amphigeni maculas totas obtegentes, olivacei, non v. irregulariter turbinato-globosi, ex hyphis rectis v. flexuosulis, non v. 1-3-septatis, cylindraceis-liberis, apice acutiusculis (12-25 × 2-2,5), olivaceis compositi;

conidia cylindracea non v. subclavulata, gracilia (7-35 × 2), recta, 1-3-septata, fumosa v. chlorina.

413. CERCOSPORA BIGNONIAECOLA Speg. (n. sp.)

Diag. Maculae amphigenae, irregulares, saepius confluentes, griseo-arescentes, determinatae, per aetatem frustulatim deciduae ac folia eroso-perforata relinquentes; acervuli in margine macularum sparsi, minuti, subimperspicui, olivacei, ex hyphis cylindraceis, densiuscule septulatis, rectis (80-160 × 7), apice non v. vix subincrassatulis, fuligineis compositi; conidia fusoideo-clavulata (40-7), apice acutiuscule obtusata, postice cuneato-subtruncata, 3-5-septata, chlorina v. olivacea.

Hab. Ad folia viva *Bignoniae* in sylva subvirginea *Caá-guazú,* Jan. 1882 (sub n. 3497).

414. CERCOSPORA GUARANITICA Speg. (n. sp.)

Diag. Maculae minutae (0,5-1,5‴ diam.), amphigenae, intense et pulchre purpureae v. violaceae, hinc inde sparsae, indeterminatae, saepius centro albo-arescentes; acervuli hypophylli rarius amphigeni, pauci, olivacei, ex hyphis cylindraceo-compressulis, ad quartum inferum subcoalescentibus denseque septulatis, caeterum liberis atque continuis, rectis v. vix flexuosis (50-100 × 3-3,5), apice obtuse rotundatis, chlorinis compositi; conidia cylindraceo-elongata v. vix subclavulata (50-80 × 4), utrinque obtusa, continua pallidissime chlorina.

Hab. Ad folia viva *Seguierae guaraniticae* Speg. in dumetis prope *Caá-guazú,* Jan. 1882 (sub n. 3442).

415. STEMPHYLIUM PARAGUAYENSE Speg. (n. sp.)

Diag. Maculae nullae; acervuli laxe sparsi, minuti punctiformes, atro-olivacei, hypophyllum totum pulverulento-granulosum efficientes; hyphae chlorinae v. fumosae, biformes; steriles repentes, effusae, dense ramoso-intricatae, laxe septulatae, graciles (2-3 crass.); fertiles hinc inde exsurgentes, rectae, breviusculae (20-50 × 2-2,5), 1-5-septulatae; conidia acrogena, solitaria, e pyriformi-trigona v. turbinato-globosa (20-25 × 18-20), 3-horizontaliter septata, loculo uno alterove septo unico vel duplice verticali donato, olivacea.

Hab. Ad folia viva arboris ignotae in montuosis prope *Peribebuy*, Jul. 1883 (sub n. 3337).

416. Macrosporium guaraniticum Speg. (n. sp.)

Diag. Acervuli penicilliformes olivacei, dense aggregati ac matricis superficiem totam minute velutino-puberulam efficientes; hyphae erectae, cylindraceae, rectae (70-80 × 5), 3-7 septatae, apice obtusae, a basi liberae, olivaceae; conidia clavata, 5-7 septata, leniter constricta, loculis 5 superis turgidis, 1-2 verticaliter septatis, 2-3 inferis gracilibus cylindraceis omnibus, olivaceis, episporio laevi donata (30-50 × 10-15).

Hab. Ad siliquas exsiccatas *Cassiae* speciei prope *Guarapí*, Jun. 1883 (sub n 3802).

STILBEAE Sacc.

417. Coremium vulgare Cda.

Hab. Ad cortices putrescentes fructuum, aurantiacearum praecipue, vulgatissimo per toto Paraguay.

418. Stilbum aurantio cinnabarinum Speg. = Fung. Arg. pug III, n. 346.

Hab. Ad corticem truncorum putrescentium in sylvis prope *Guarapí*, per ann. 1881 (sub n. 2797).

Obs. Stipites nonnihil graciliores ac capitulo fere concolores; conidia elliptica, recta v. inaequilateralia, utrinque rotundata, (5 × 2,5), 2-guttulata, hyalina.

419. Isaria gracilis Speg. (n. sp.)

Diag. Effusa, crustaceo-tomentella, matrice totam externe atque interne ambiens, candida, hinc inde ramulos tenuissimos, concolores, erectos, rectos, simplices (9-10‴ × 0,1-0,2‴) emittens; ramuli ex hyphis gracillimis (1,5-2 crass.), densissime constipatis ac subcoalescentibus, apice tantum liberis efformati; conidia in hypharum apicibus divaricatulis acrogena, elliptica, utrinque acutiuscule rotundata (3-4 × 1,5), non v. minute guttulata, hyalina.

Hab. Ad coleoptera (*Cassis* spec.) emortua putrescentia, in rimis corticis truncorum loco *Cerro de S. Thomas* vocato, Jan. 1885 (sub n. 3760).

420. Graphium verticillioide Speg. (n. sp.)

Diag. Stromata dense aggregata, matrici infuscata ac subiculo

tenuissimo arachnoideo-pulverulento, parum manifesto vestita insidentia, parvula (1-2‴ alt. × 0,3-0,4‴ crass.), erecta, recta, cylindracea apice simplicia ac obtusa rarius acutata ac fisso subramulosa, libera v. saepe 2-3 basi connata, coriacea, deorsum glabra, fusco-atra, sursum puberula sordide rubiginosa; pubescentia ex hyphis pallidissime rubiginosis liberis, ramoso-intricatis, hinc inde adsurgentibus, rectiusculis, remote septatis, non v. vix constrictis, saepeque 2-3 subverticillato-ramulosis efformata; ramuli secundari hypharum v. earumdem apices 1-3 ramululosi; ramululi (tertiarii) lanceolati (15 × 2,5), hyalini, dense granulosi; conidia elliptica (4-5 × 2-5), utrinque acutiuscule rotundata, hyalina in ramululorum granulis densissime adnato-pleurogena, non concatenata.

Hab. Ad ramenta lignea putrescentia in sylvis prope *Guarapí*, Nov. 1881 (sub n. 3425).

Obs. Haec species *Hypoxyli* cujusdam statum conidicum sistit.

421. GRAPHIUM? GIGANTEUM Speg. (n. sp.)

Diag. Stromata hinc inde dense subfasciculato-aggregata, saepeque basi breviter confluentia, maxima (5-10‴ alt. × 0,2-0,5‴ diam.), erecta, recta, subcylindracea v. compressiuscula, simplicia, apiceque subcapitulato-incrassatula v. laciniato-ramulosa, deorsum atra, glabra, sursum puberula, fusco-rubiginosa; pubescentia ex hyphis dense intricato-ramulosis, hinc inde adsurgentibus (50-60 × 3), parce septulatis, apice laxe ramululosis, fumoso-chlorinis composita; ramululis extremis apice saepius subcapitulatis denticulatisque, subhyalinis; conidia non catenulata, elliptica v. ovoidea (4-6 × 2-2,5), recta v. vix inaequilateralia, utrinque obtusiuscula, hyalina.

Hab. Ad corticem truncorum putrescentium in sylvis prope *Guarapí*, Jul. 1881 (sub n. 2806).

TUBERCULARIEAE Fr.

422. TUBERCULARIA GUARANITICA Speg. (n. sp.)

Diag. Sporidochium sub epidermide crustaceo-effusum, eaque hinc inde fissa, suberumpens, non v. vix pulvinulatum, applanatum, undulatum, difforme, magnitudine maxime ludens (0,5-5‴

diam.), acute marginatum, glabrum, pallide aurantio-roseum v. aurantium; basidia filiformia (15-20×1-1,5), cylindracea, coalescentia, apice cuneato-attenuata, acutata, libera, hyalina, monospora; conidia ovoidea, rarius elliptica (5-6×2-2,5), hyalina.

Hab. Ad corticem putrescentem ramorum in sylvis prope *Guarapí*, Jun. 1881 (sub 2788).

423. Tubercularia paraguaya Speg. (n. sp).

Diag. Sporidochia sparsa, innato-erumpentia, vix pulvinulata, repando-orbicularia v. confluendo difformia, mediocria (0,5-1‴ diam.), superne applanata v. vix convexula, rosea, margine pallidiora; basidia cylindraceo-clavulata (20×2,5-3), apice obtuse rotundata, hyalina; conidia e globoso-elliptica (4-6×2,5-4), hyalina.

Hab. Ad corticem putrescentem truncorum in sylvis prope *Paraguarí*, per ann. 1879 (sub n. 2792).

424. Volutella paraguayensis Speg. (n. sp.)

Diag. Sporidochia hinc inde sparsa, globoso-depressa v. sublenticularia, minutissima (150 diam.), mellea, non v. vix substipitata, margine longe laxeque ciliata; saetulae cylindraceae, sursum sensim attenuatae, parce remoteque septulatae, laeves (150-200×5-8), hyalinae; contextus sporidochii carnosum, tenuissime ac subindistincte prosenchymaticum; conidia papillulis epithecii acrogena, cylindracea (5-6×1), utrinque truncato-subrotundata, non v. minute 1-guttulata, rarius subincrassatula, hyalina.

Hab. Ad legumen dejectum putrescens in montuosis prope *Peribebuy*, Mart. 1883 (sub n. 3777).

Obs. Species a *V. ciliata* (A. S.) Fr. recedens saetulis septatis, conidiis gracilioribus, utrinque truncatis.

Guelichia Speg. (n. gen.)

Diag. Conidia fusoidea, continua, hyalina in basidiis solitarie acrogena; basidia filiformia, inferne coalescentia, superne libera, sub apice 6-setigera, setulis 3 adscendentibus, 3 minoribus descendentibus; sporidochia disciformia, margine tomentoso-ciliolata.

Obs. Genus Cl. Carolo von Gülich, amico meo carissimo, botanicae amantissimo libenter dicatum.

425. **Guelichia paradoxa** Speg. (n. sp.)

Diag. Maculae nullae; sporidochia epiphylla, hinc inde sparsa, rarius 3-9-aggregata, superficialia, majuscula (0,3-1‴ diam.), cupulata, albo-tomentosula, disco melleo; setulae marginales densiusculae, molliusculae, flexuosulae, cylindraceae (100-250 × 6-7), sursum sensim attenuatae, apice non v. vix subincrassatulae ac obtusiusculae, remote parceque septulatae, hyalinae; contextus sporidochii carnosulus, dense imperspicueque prosenchymaticus, pallide fulvellus; basidia hyalina cylindracea (40-50 × 2), in parte dimidia infera coalescentia, in dimidia supera libera ac lenissime subfusoideo-incrassatula ac rugulosa, sub apice (sub 10 μ) 6 ciliis concoloribus donata, 3 superis longissimis, subfalcato-divaricatulis (40-50 × 1,5), linearibus medio nonnihil crassioribus apice acutissimis, tribus inferis rectiusculis (14–15 × 1-1,5), obtusiusculis; conidia in basidiis solitarie acrogena, fusoidea (25-30 × 3,5-4), continua, hyalina, utrinque obtusiuscula.

Hab. Ad folia viva *Rhamneae* speciei cujusdam prope *Paraguarí*, Jun. 1883 (sub n. 3864).

Obs. Species pulchella *Cyphellae albo-violascentis* (A. S.) Karst. habitu simillima.

426. **Fusarium gigas** Speg. (n. sp.)

Diag. Mycelium tenuissimum, effusum, vix perspicuum, arachnoideum, e hyalino albo-roseum; hyphae repentes, laxe ramoso-intricatae, remotissime septulatae (3-4 crass.), hinc inde ramululos brevissimos, simplices, monosporos, erectos emittentes; conidia cylindraceo-fusoidea, utrinque attenuato-acutata (100-130 × 7-8) apice tantum inaequilaterali-subfalcata, 9-11 septata, non constricta, hyalina.

Hab. Ad culmos dejectos *Bambusaceae* cujusdam, socio pyrenomycete sterili, prope *Arroyo-guazú*, Jan. 1882 (sub n. 3471).

Obs. Extremitate infera conidiorum saepius appendice minuta nodulosa donata.

427. **Fusariam gaudefroyanum** Sacc. = Mich. v. II, p. 132.

Hab. Ad folia dejecta putrescentia *Sacchari officinarum* prope *Guarapí*, Dec. 1882 (sub n. 3733).

Obs. Specimina guaranitica nonnihil a typo recedunt mycelio effu-

so, tenuissime arachnoideo; conidia 3-5 septata (25-45×3), hyalina. An melius *Fusario graminum* Cda adscribendum?

428. **Microcera? clavariella** Speg. (n. sp.)

Diag. Maculae nullae; sporidochia cylindracea, minuta (250-500 alt. × 50-80 crass.), simplicia, apice obtusa, erecta, ceracea tenacella, rigidula flavidula v. carnea, solitaria v. saepius 2-10 aggregata, e nucleo lenticulari (0,5×1‴ diam.) concolori, subepidermico, parenchymate innato oriunda, glabra; basidia sporidochii superficiem totam obtegentes (an apices ejusdem hypharum?) clavulata, apice obtusata v. acutata, dense ruguloso striata (10-15×3), hyalina, monospora; conidia clavulata, curvula, 3-5-septata non constricta (20-27 × 1,5-2), utrinque, acuta, hyalina.

Hab. Ad folia viva *Eugeniae* speciei, socia *Phyllachora* inaevoluta, prope *Cuá-guazú,* Jan. 1882 (sub n. 3483).

429. **Epicoccum purpurascens** Ehrh.

Hab. Ad folia dejecta putrescentia *Sacchari officinarum* prope *Guarapí*, Dec. 1882 (sub n. 3733).

Bomplandiella Speg. (n. gen).

Diag. Sporidochia globosa e basidiis simplicibus, olivaceis coalescentibus, apice liberis ac in appendice gracile productis composita; conidia globosa in appendicibus basidiorum dense pleurogena chlorina, non catenulata.

Genus inter *Tubercularieas* et *Dematieas* nutans.

430. **Bomplandiella guaranitica** Speg. (n. sp.)

Diag. Sporidochia hinc inde laxe aggregata, hypophylla, superficialia, globosa (150-180 diam.), obscure olivacea, puberula, matrici arcte adnata; basidia cylindracea, coalescentia olivacea, apice abrupte cuneato-rotundata (65-70 × 3-4), ac in appendice cylindracea (5-20 × 2-3), denticulato-nodulosa, subhyalina producta; conidia elliptico-globosa (1,5 diam.), pallide olivacea v. fumosa, in parte media appendicis basidiorum dense 10-20-pleurogena (rarius 2-3 acrogena).

Hab. Ad folia viva *Sapoteaceae* cujusdam, socia *Phyllachora pulchra* Speg., *Paraguarí,* Oct. 1881 (sub n. 3557).

431. Myrothecium? pulchellum Speg. (n. sp.)

Diag. Sporidochia amphigena, sparsa, discoideo-repanda, minuta, (100-300 diam.), tenuia, intense viridi-olivacea, applanata, zona alba, tomentosulo-radiante marginata, matrici arcte adnata; contextus prosenchymaticus; basidia cylindracea, breviuscula, gracillima (20-25 × 1), in conidiis catenulatis apice producta; conidia cylindracea, utrinque truncata ac minute 1-guttulata 12-13 × 1,5), laevia, dilutissime chlorina.

Hab. Ad folia exsiccata adhuc, pendula *Luheae grandiflorae,* in sylvis prope *Guarapí*, Jul. 1883 (sub n. 3868).

432. Chaetostroma nigricans Speg. (n. sp.)

Diag. Sporidochia amphigena, densiuscule sparsa atro-olivacea, e turbinato globosa, minutissima (40-70 diam.), sessilia, margine parce ciliata; ciliis minutis, rigidulis, cylindraceo-attenuatis, apice obtusiusculis, basi subbulbosis, (50-85 × 3-5), fuligineis, 5-10 septatis, non constrictis, contextu tenuissime membranaceo, olivaceo, anhisto; basidia cylindracea (7-8 × 4), basi coalescenti-evanida, apice cuneato-acutata, pallide chlorina; conidia cylindracea, utrinque rotundata (12-15 × 4-4,5), continua hyalina.

Hab. Ad folia languida v. emortua adhuc pendula *Smilacis* speciei in sylva *Caá-guazú,* Jan. 1882 (sub n. 3469).

MYCELIA STERILIA

433. Sclerotium erysiphoide Speg. (n. sp.)

Diag. Globosum parvulum (200-300 diam.), atrum glabrum, laeve, hypophyllum, sparse in tomento albo foliorum subasconditum; cortex crustaceo-coriaceus, contextu indistincto, ater; pulpa alba, ex hyphis dense constipatis, tortuoso-angulosis, hyalinis, hinc inde guttulis concoloribus oleosis inmixtis composita.

Hab. Ad folia viva *Myrtaceae* cujusdam in sylva *Caá-guazú,* Jan. 1882 (sub n. 3498 et 3820).

Obs. Species perpulchra habitu *Phyllactiniae suffultae* (Reb.) Sacc. simillima; an status inaevolutus cujusdam Erysipheae?

434. Sclerotium cactorum Speg. (n. sp.)

Diag. Globosum v. subturbinatum, superne saepius rotundatum atque centro minute papillulatum, parvulum (200-300 diam.),

atrum, subrugulosum, dense aggregatum, plagulas repando orbiculares majusculas (5-10‴ diam.) v. confluendo difformes hinc inde per superficie matricis efformans; cortex coriaceo-carbonaceo contextu, indistincto, pulpa alba, minute parenchymatica farctum.

Hab. Ad ramos vetustos *Opuntiarum* nec non *Cereorum* in sylvis prope *Pirayú*, Jul. 1879 (sub n. 2780).

435. SCLEROTIUM CLAVUS DC.

Hab. Ad cariopsides *Olyrae* speciei cujusdam in sylva *Naranjo*, Jun. 1883 (sub n. 3859).

Obs. Breviusculum, elliptico-turgidum, deorsum atrum laeve, sursum roseum farinulosum. An species distincta?

MONITUM

Mox in lucem proditurus pugillus II, Fungorum guaraniticorum, specimina nonnulla Balansiana adhuc indescripta, nec non alia perplurima ex finitimis Brasiliae sistens.

C. SPEGAZZINI.